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ABSTRACT

Divided into seven sections, this report contains: data delineating the population of postsecondary-degree-planning candidates, by native country and Test of English as a Foreign Language (TOEFL) region; (2) differences among native country contingents with respect to degree level, age, sex, and all other basic TOEFL variables, except TOEFL scores; (3) variation on mean TOEFL score profiles for degree-planning candidates, by level of planned degree program, and by country; (4) variation in TOEFL means in relation to sex, location of test center, previous experience with TOEFL, and score repeating patterns; (5) distribution of graduate-degree planners according to intended department of study, and corresponding TOEFL score statistics; (6) patterns of native languages by native country; and (7) summary data on differences among native country groups with respect to basic TOEFL variables, and the extent of covariation across native country contingents between indices descriptive of TOEFL candidate contingents and indices of the standing of countries on indices of relative status as developed vs developing. Emphasis is on native country as the unit of analysis and on the comparative assessment of data on candidate characteristics and TOEFL performance by country of origin. (PN)



Research Reports

REPORT 11 SEPTEMBER 1982

A COMPARATIVE ANALYSIS OF TOEFL EXAMINEE CHARACTERISTICS, 1977-1979

Kenneth M. Wilson

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EDUCATIONAL TESTING SERVICE

The Test of English as a Foreign Language (TOEFL) was developed in 1963 by a National Council on the Testing of English as a Foreign Language, which was formed through the cooperative effort of over thirty organizations, public and private, that were concerned with testing the English proficiency of nonnative speakers of the language applying for admission to institutions in the United States. In 1965, Educational Testing Service (ETS) and the College Board assumed joint responsibility for the program and in 1973 a cooperative arrangement for the operation of the program was entered into by ETS, the College Board, and the Graduate Record Examinations (GRE) Board. The membership of the College Board is composed of schools, colleges, school systems, and educational associations; GRE Board members are associated with graduate education.

ETS administers the TOEFL program under the general direction of a Policy Council that was established by, and is affiliated with, the sponsoring organizations. Members of the Policy Council represent the College Board and the GRE Board and such institutions and agencies as graduate schools of business, junior and community colleges, nonprofit educational exchange agencies, and agencies of the United States government.

A continuing program of research related to TOEFL is carried out under the direction of the TOEFL Research Committee. Its six members include representatives of the Policy Council, the TOEFL Committee of Examiners, and distinguished English-as-a-second-language specialists from the academic community. Currently the committee meets twice yearly to review and approve proposals for test-related research and to set guidelines for the entire scope of the TOEFL research program. Members of the Research Committee serve three-year terms at the invitation of the Policy Council; the chair of the committee serves on the Policy Council.

Because the studies are specific to the test and the testing program, most of the actual research is conducted by ETS staff rather than by outside researchers. However, many projects require the cooperation of other institutions, particularly those with programs in the teaching of English as a foreign or second language. Representatives of such programs who are interested in participating in or conducting TOEFL-related research are invited to contact the TOEFL program office. Local research may sometimes require access to TOEFL data. In such cases, the program may provide this data following approval by the Research Committee. All TOEFL research projects must undergo appropriate ETS review to ascertain that the confidentiality of data will be protected.

Current (1981-82) members of the TOEFL Research Committee include the following:

G. Richard Tucker (chair) Louis A. Arena H. Douglas Brown Frances B. Hinofotis Diane Larsen-Freeman

David S. Sparks

Center for Applied Linguistics
University of Delaware
University of Illinois at Urbana-Champagne
University of California at Los Angeles
The Experiment in International Living
University of Maryland



A Comparative Analysis of
TOEFL Examinee Characteristics, 1977-1979

Kenneth M. Wilson

(with the collaboration of Richard H. Harrison)

Educational Testing Service Princeton, New Jersey

RR 82-27



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INTRODUCTION AND OVERVIEW OF MAJOR FINDINGS

The major purpose of the Test of English as a Foreign Language (TOEFL) is to assess the English proficiency of individuals whose native language is not English. TOEFL is administered under four separate testing programs: the International, Special Center, Institutional, and Overseas Institutional testing programs. The Institutional and Overseas Institutional programs involve internal administration of TOEFL by institutions to their enrolled students; scores are used primarily for placement in English courses or for determining whether remedial work in ESL is needed.

International and Special Center administrations, which are offered in over 850 testing centers located in more than 135 countries and areas, provide for testing under controlled, secure conditions. These programs are used primarily to provide an objective measure of English proficiency for international students whose native language is not English who plan to enter colleges or universities located in the United States or Canada.* During the two-year period from September 1978 through August 1980, for example, almost 416,000 examinees (some 88 percent of total TOEFL volume for the period) reported plans to study for a postsecondary degree.

This report presents findings of a study, using data from TOEFL program files, of the characteristics and the TOEFL performance of foreign nationals from more than 100 countries who took TOEFL from September 1977 through August 1979 and reported that they were doing so to implement plans to study in the United States or Canada. As part of the process of taking TOEFL, candidates supply information regarding their reasons for taking TOEFL and their native countries. This information provides a basis for classifying TOEFL candidates by country of origin and identifying those who are prospective postsecondary students. Other data in TOEFL program files permit a more detailed description of the personal and academic characteristics of these prospective students in various country contingents and insight into their behavior as TOEFL candidates—i.e., individuals who need to demonstrate their proficiency in English as part of the process of applying for admission to undergraduate or graduate degree programs in the U.S.A. or Canada.



^{*}The TOEFL programs involved also serve individuals who need to demonstrate their English proficiency for other reasons, including those related to professional licensure or employment. Other reasons for taking TOEFL, which candidates are asked to specify, are "to enter a school other than a college or university," "to become licensed to practice my profession in the USA or Canada," "to demonstrate my proficiency in English to the company for which I work or expect to work," or "other than above."

Candidate Data from Program Files

In addition to information about native country and reasons for taking TOEFL, TOEFL candidates are asked to indicate their sex, date of birth, native language, and whether they have taken TOEFL previously. Candidates who wish to have official copies of their TOEFL scores sent to postsecondary institutions, agencies (e.g., Agency for International Development, Institute of International Education), and/or embassies, may designate up to three such score report recipients.* If applying for graduate study, they are also instructed to indicate a department (field) of intended study. The location of the test center in which a candidate took TOEFL can also be determined from TOEFL files, providing a basis for classifying candidates according to country of residence when the test was taken. And, of course, scores on TOEFL are available.

Thus, data are available in TOEFL program files on a number of personal and academic characteristics of TOEFL candidates as well as on variables descriptive of their behavior as test candidates and as prospective applicants for admission to U.S. or Canadian higher education institutions, as follows:

Sex
Age at time of most recent testing
Native language
Country of residence at time of most recent testing
Level of intended degree program and, for graduate-level
aspirants, intended department (field) of study
Previous TOEFL testing
Pattern of score reporting (designating or not
designating institutions/agencies as score report
recipients)
Scores on TOEFL (section and total scores)

About This Report

This report details analyses involving the variables outlined above for TOEFL candidates in the International and Special Center programs who tested during the period from September 1977 through August 1979 and who, according to their designated reasons for taking TOEFL, were classifiable as prospective applicants for admission to undergraduate or graduate degree programs in the United States or Canada. Emphasis is on native



^{*}In the period covered by this report, candidates could designate up to four official score report recipients.

country as the unit of analysis and on the comparative assessment of data on candidate characteristics and TOEFL performance by country of origin.*

Section 1 provides data delineating the population of postsecondarydegree-planning candidates, by native country and TOEFL region; Section 2 examines differences among native country contingents with respect to degree level, age, sex, and all other basic TOEFL variables, except TOEFL scores; Section 3 considers variation on mean TOEFL score profiles for degree-planning candidates, by level of planned degree program, by country; Section 4 examines variation in TOEFL means in relation to sex, location of test center, previous experience with TOEFL, and score reporting patterns; Section 5 presents data on the distribution of graduate-degree planners according to intended department (field) of study, and corresponding TOEFL score statistics; Section 6 presents data on patterns of native languages by native country with emphasis on identifying the majer language groups for each native country; Section 7 provides summary data on differences among native country groups with respect to basic TOEFL variables and examines the extent of covariation across native country contingents between indices descriptive of TOEFL candidate contingents (e.g., sex distribution, mean TOEFL scores) and indices of the standing of countries on indices of relative status as "developed" vs "developing" (e.g., literacy rates, higher education enrollment rates at the beginning of the 1970s).

Some Limiting Considerations

In evaluating the findings for native country contingents, it is important to keep in mind that samples of degree-planning TOEFL candidates are not selected in the same way in different countries and that they are not necessarily a representative cross-section of the indigenous postsecondary student populations of their respective native countries with respect to variables such as age, sex, distribution according to degree level, capacity to develop English language proficiency, or other variables. As the TOEFL Test and Score Manual (1981) indicates, in some countries virtually any individual who aspires to study in the United States (or elsewhere) may take TOEFL in pursuit of that aspiration, whereas in others government regulations may permit only selected individuals at certain educational levels in specialized fields of study to do so, depending upon perceived national interest.

It is also useful to recognize that classification by reported "native country" does not take into account the consequences of migration;

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^{*}In a companion report, data on the same population of candidates are presented with emphasis on detailed assessment of candidate characteristics within each of 138 native country contingents (Wilson, 1982).

native country is not necessarily synonymous with country of citizenship at time of testing, for example, nor can it be assumed that all individuals designating a given native country were reared and educated in that country. Information required to assess these variables in the TOEFL candidate population is not available in the TOEFL testing files.

Given these considerations, the reader should keep in mind that the information reported herein is descriptive only of individuals selected into TOEFL candidacy from the respective native countries who indicated specific reasons for taking TOEFL. To the extent that the complex pattern of factors that operates to influence the selection of individuals into TOEFL candidacy remains reasonably stable over time, observed differences among country contingents with respect to candidate characteristics (such as average TOEFL scores, sex mix, undergraduate-graduate mix) may be thought of as indicating real differences in the populations of individuals from these countries who take TOEFL as part of the process of applying for admission to postsecondary institutions in the United States or Canada.

Overview of Major Findings

During the period from September 1977 through August 1979, some 283,000 individuals took TOEFL one or more times in the International and Special Center testing programs and designated "native countries." Of this number, 235,738 indicated entering a college or university as an undergraduate or a graduate student as a reason for taking TOEFL, and indicated further that they planned to study for a degree in the United States or Canada. The population of "prospective postsecondary degree seekers" (thus defined) represented about 83 percent of all test takers during the period who designated native countries; the remaining 17 percent gave other reasons for taking TOEFL, failed to indicate a reason, or did not report plans to seek a degree in the United States or Canada.

- o 163 countries were named as native countries by at least two degree planners; 25 were named by fewer than 10, and 25 by 1,900 or more. The 25 leading country contingents accounted for 84 percent of all degree planners.
- o Five countries accounted for almost 54 percent of of all degree planners; Asian and Mideastern countries accounted for 50 percent and 23 percent, respectively.
- o The percentage of test takers who planned postsecondary study in the U.S.A or Canada as reasons for taking TOEFL varied considerably across country contingents--from 27 to 97 percent.



o Of the 25 leading countries of origin of degree planners, 23 were among the leading 30 countries of origin of foreign students enrolled in U.S. colleges during 1978-79.

Academic, Demographic, and Testing-Related Characteristics of Degree-Planning Examinees*

- o About half (50.7 percent) of all degree planners were prospective undergraduate students and about half (49.3 percent) were prospective graduate students. The undergraduate/graduate division ranged, in percent, from 89/11 to 15/85 across the 25 leading country contingents.
- o Almost one-third (32 percent) reported that they had taken TOEFL previously, i.e., were repeaters; repeater percentages ranged from 4 to 55.
- o More than seven in 10 (72 percent) were male; the male/female division ranged in percent from 94/6 to 53/47.
- o Almost three in 10 (29 percent) were tested in the United States or Canada (in a domestic center); the percent tested domestically ranged from 6 to 66.
- o The typical undergraduate planner was over 20 years of age (median = 20.6, mean = 21.4), and the typical graduate planner was over 25 years of age (median = 25.1, mean = 26.3) at time of most recent testing. Across countries, the mean age of undergraduate planners ranged from 19.6 to 23.8, and for graduate planners the range was from 23.3 to 32.6 years.
- o Fully 50 percent of degree planners failed to designate any receiving institutions for score reports which, accordingly, were sent only to the examinees involved; nonreporting ranged from 25 to 70 percent. Only 43 percent of degree planners designated U.S. higher education institutions to receive their score reports.

Performance on TOEFL in Relation to Academic, Demographic, and Testing-Related Variables

o Graduate planners had higher TOEFL total means than undergraduate planners (511 and 499, respectively)—true for 18 of the 25 leading contingents. For the seven contingents with higher



^{*}Unless otherwise indicated, the range of values reported is for the 25 leading countries.

undergraduate than graduate means on TOEFL total, differences were accounted for primarily by undergraduate superiority on Listening Comprehension. More generally, in 19 of the 25 largest contingents, Listening means for undergraduate planners were higher than those for graduate planners.

However, in only one instance were undergraduates superior on Reading Comprehension; Reading Comprehension items are more like those of standardized tests of verbal ability in English than those in the Listening section. Why undergraduate (typically younger) degree planners should tend to outperform graduate planners on Listening Comprehension is not immediately evident.

- o Women tended to do better than men on TOEFL total (means of 513 and 502, respectively); this was for 21 of the 25 leading contingents. Women make up a minority of all candidates and this result may be due to selective factors.
- o For 18 of the 25 leading contingents, candidates tested in foreign centers did better on TOEFL total than those tested domestically. Such a pattern cannot be rationalized easily. Selective factors may be involved--e.g., in the seven contingents with higher scores for domestic- than for foreign-tested examinees, the proportion of domestic-tested examinees was lower than average.
- o Repeaters tended to have lower TOEFL total scores, at time of most recent testing, than degree planners generally (mean of 496 as compared to 505 for all degree planners, including repeaters); this was true for 15 of the 25 leading countries. Contingents with higher repeater than all-candidate means were characterized by lower than average performance on TOEFL total and a higher incidence of repeated testing.
- Prospective postsecondary enrollees who did not name receiving institutions (nonreporting candidates) earned substantially lower TOEFL total scores than their reporting counterparts; this was true for all 25 leading contingents. The mean TOEFL total score for nonreporting candidates (486) was more than 0.5 standard deviation units below the means for candidates who designated U.S. higher education institutions (43 percent did so).
- o Sixty percent of all prospective graduate students old not designate a specific intended field (department) of study: among 25 leading country contingents, percentages not naming specific fields ranged from 33 to 78.

Among the 40 percent who named specific fields, 38 percent named a physical science field, 20 percent named "business school," and 20 percent named social sciences; 12 percent intended



to study in bioscience fields, 8 percent in humanities, and less than 1 percent in law.

Mean TOEFL total scores for graduate planners who named specific fields were substantially higher than for those who did not do so; this was true for all 25 leading contingents.

o Most of the leading native country contingents were quite homogeneous linguistically in the sense that most degree planners in the specific contingents reported a common native language. In 16 of 25 contingents, from 96 to 99 percent of the examinees reported a common native language, and in five additional contingents from 73 to 87 percent reported a common language. Four of the leading contingents were linguistically fractionated—Malaysia, Nigeria, Ghana, and India. Differences among country contingents in mean TOEFL scores were only weakly associated with differences in degree of linguistic homogeneity.

Variability in TOEFL Scores Across Countries: Some Correlates

Among 129 country contingents, the following trends were identified by correlational procedures:

- o Incidence of institutional score reporting was positively associated with TOEFL total (r = .52 between percent reporting to U.S. institution only and TOEFL total).
- o Nonreporting (percent) was inversely related to TOEFL total (r = -.55).
- o Incidence of repeated testing (percent repeaters) was inversely associated with TOEFL total (r = -.64).
- o Country contingents with higher percentages of women tended to have higher TOEFL total (r = .40).
- o Contingents with higher percentages of foreign-center examinees tended to have higher TOEFL total (r = .26).
- o Contingents from "developed" countries tended to have lower percentages of examinees taking TOEFL to facilitate plans for

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postsecondary education than did contingents from "developing" countries.*

o Compared to contingents from developing countries, contingents from developed countries tended to have higher representation of women, tended to be younger on the average, and tended to have higher TOEFL scores, especially on Listening Comprehension.

Some Conclusions

In the analyses reported herein, all of the TOEFL examinees involved were classifiable as self-reported prospective enrollees in U.S. or Canadian colleges or universities. Based on the evidence reviewed several conclusions are warranted.

- o Many TOEFL examinees (perhaps a majority) during any given testing year should not be thought of as prospective applicants for admission in the following academic year.
- o Examinees who designate colleges and universities to receive their most recent TOEFL scores are closer than their nondesignating counterparts to the application-for-admission stage of the flow of candidates from first-time TOEFL testing through application and ultimate enrollment (if accepted) in a U.S. or Canadian postsecondary institution.
- o Nonreporting candidates are interested primarily in assessing their level of English proficiency <u>before</u> proceeding with a formal application for admission; such application is likely to be contingent upon reaching some personally or externally imposed criterion or threshold score level on TOEFL.
- o TOEFL norms based on examinees who designate institutional score recipients (who have substantially higher scores than their nonreporting counterparts) are likely to provide a more realistic frame of reference for TOEFL users associated with admissions or ESL instruction at both undergraduate and graduate levels than

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^{*&}quot;Developing" vs "developed" status is defined in terms of the relative standing of countries on indicators such as school enrollment and literacy rates, indices of scientific capacity, etc., which were correlated with TOEFL score means (see Section 7). Countries with higher standing on these indicators (circa 1965-70) are thought of as more highly developed countries, whereas those with lower standing during this period are thought of as "developing countries."

norms that include scores of nonreporting examinees <u>and</u> that include all score records .or repeater candidates, not just the most recent scores.

These conclusions are consistent with findings reported elsewhere (Wilson, 1982a) regarding the degree of overlap between the population of candidates taking TOEFL and the foreign candidate populations taking the Graduate Record Examinations (GRE) Aptitude Test or the Graduate Management Admission Test (GMAT) during the 1977-79 study period.

Further research is needed to answer questions regarding (a) the basic patterning and timing of the candidate flow process from initial TOEFL candidacy to formal application and enrollment in a U.S. or Canadian higher education institution, (b) the extent of plans realization among TOEFL candidates who aspire to study in the United States or Canada, and (c) and the degree of overlap between the population of degree-planning TOEFL candidates and the population of foreign students enrolled in U.S. or Canadian higher education institutions.



SECTION 1. THE POSTSECONDARY-DEGREE-PLANNING TOEFL CANDIDATE POPULATION

From September 1977 through August 1979, approximately 283,000 individuals took the Test of English as a Foreign Language (TOEFL) one or more times in an International or Special Center test administration, and designated a "native country" code, selected from a list of more than 170 codes provided in the TOEFL Handbook for Applicants (see Exhibit 1A).* If these test takers, 235,738 designated as reasons for taking TOEFL, to enter a college or university as an undergraduate student," or "to enter...as a graduate student," and planned to study for their degree in the United States or Canada. The population of prospective postsecondary legree seekers (N = 235,738), thus defined, represented some 83 percent of all examinees during the period who designated native countries; the remaining 17 percent gave other reasons for taking TOEFL, failed to indicate a reason, or did not indicate plans to seek a degree in the Inited States or Canada.**

The distribution of this population of postsecondary degree-planning TOEFL candidates according to native country is shown in Table 1.1. Table 1.1 lists a total of 163 countries designated by two or more legree-planning TOEFL candidates, within each of six regions as defined by the TOEFL office; the number of degree planners for each region and country of origin is shown, as is the percentage for each region.

o Of the 235,738 degree planners, 50 percent reported Asian and almost 23 percent Middle Eastern countries of origin; African, American, and European countries accounted, respectively, for approximately 10, 9, and 7 percent of the total, with the



^{*}As shown in Exhibit IA, TOEFL candidates are instructed to "look for the name of your country or region [in the list provided]," and to enter the corresponding native country code on TOEFL forms; "native country" is not defined in the instructions. It is recognized that classification by native country does not take into account the consequences of migration. It is not assumed that all candidates designating a given "native country" remained resident in that country, were educated in that country, were citizens of that country at time of testing, etc.

^{**}Other reasons for taking TOEFL (listed on the answer sheet) are: "to enter a school other than a college or university," "to become licensed to practice my profession in the U.S.A. or Canada," "to demonstrate my proficiency in English to the company for which I work or expect to work," or ther than above."

Exhibit 1A

Alphabetical Listing of Native Countries and Codes, and Instructions to TOEFL Candidates: From the TOEFL Handbook for Applicants, 1979-80

8. Native Country Code: Look for the name of your country or region in List C below. Then, under "Native Country Code" on your registration confirmation ticket, copy the number that is printed next to your country or region. If your country has recently changed its name, look for it under its former name. If your country is not listed at all, write 000 in the boxes in area 8.

LIST C: Region and Native Country Codes

***			Equatorial Guinea	144	Lesolha	671	Romanu
	Afghanistan		Ethiopia		Listria		Reanda
	Arbahia		Federal Republic of		Libra	676	San Marino
	Argeria American Samoa	61,	Germany		L echiensië n		Sao Tome and Principe
	Andorra	510			Luxembourg		Saudi Arabia
	Ango-a		Finland		Macao	194	Senegal
	Angola Argentina		France	W-7-1-	Madagascar		Seychelles
	Australia		French Guerta		Madeira		Sierra Litone
	Austria		French Polyhesul		Malawi	391	Singapore
	Azares		Gabon	361	Mataysia	532	Solomon Islands
	Banamas		Gambia		Maidres	201	Sometica
	Bahrain		German Democratic Rep		Mali	204	South Africa (Republic of)
	Bangladesh		Ghana		Malta	680	Spain
	Barbados		Great Britain		Mariana Islands	394	Sri Lanka
	Beigium		Greace	742	Martinique	207	Sugan
	Betize		Greenland	519	Marshak Islands	754	Surinam
	Benin		Granada	173	Mauritania	210	Swaziland
	Bermuda		Guadaloupe	365	Mauridius	683	S∞eden
	Bhutan		Guam	743	Mexico	686	Switzerland
	Bouve		Guatemata	657	Monaco	396	Syru
	Botswana	146	Guinea	367	Mongolia	319	Tarwan
	Braze	147	Guinea Bissau	176	Morocca		Tanzania
	Brunes	819	Guyana	179	PĘ01 Stužiičina		Thailand
610	Bulgária	734	Hanr	522	Nauro		logo
	Burma	737	Honduf≧s		Nepal		Tonga
107	Burundi	322	Hong Kong		Netherlands		Trinidad and " :ago
110	Cameroon	640	Hungary	746	Notnerlands Antilles		Tunisia
791	Canada	543	keland		New Caledonia		Turkey
114	Cape Verde Islands	325	India		New Zealand		Uganda
507	Caroline Islands	328	Indonésia		Nicaragua		Union of Soviet Socialist Rep
716	Cayman Islands	33!	Iran		Niger		United Arab Emirates
115	Central African Republic		₩ a q		Nideur		United States of America
119	Chad		Ireland		Norway		Upper Volta
	Chie	~~.	Israel		Oman		Uruğuay
	Colombia		Italy	• • •	Pakistan		Vatican Venezuela
	Comoros		Ivory Coast		Panama		Assurant Assurant
	Congo		Jamaica		Papua New Guinea		Victoriani Victoria
	Cesta Rica		البجدل		Paraguay People's Republic of		Western Samoa
	Cuba		Jordan	43/	China		West Indies
	Cyptus		Kampuchea	-06		104	Associated States
	Częchosłovakia		Kenya		Peru	410	Yernen
	Denmark		Kuribati		Philippines		Yugostava
	Dipporti		Konsa		Poland Portugal		Zave
	Dominican Republic		Kuwat		Puerto Rico		Zambia
	Ecuador		Lags		Catar Catar		Zambabwa
	Egypt	358	Lebanon	307	User!	1 60	T a submitted &
72	El Salvador						



NUMBER OF DEGREE PLANNING TOEFL CANDIDATES, BY NATIVE COUNTRY AND TOEFL REGION:
INTERNATIONAL AND SPECIAL TESTING PROGRAMS, 1977-78 and 1978-79

APRICA-TOTAL	(\$4552)	APRESCA-TOTAL (EISAS)	EUROPE-TOTAL (16929)	ASIA-TOTAL (117484)
ALGERÍA	(437)			
≜HSOL ▲	[191	APGENTINA (584)	ALBAHIA (41	AFGHANISTAN (169)
BEHIN	(13)	BAMAMAS (97 BAGBADAS (5)	AUSTPIA (150)	BANGLADESH ! 1005)
	(36)	SILIZE (*)	#20865 (23) 8666194 (\$16)	BHUTAH (15)
	4 6) 1 5)	BOLIVIA (413)	BELGIUM (\$16) BULGARIA (\$7)	8FU"/E1 (051
C. AFRICA	E 3341	GRAZIL (2461)	CYFRUS (920)	Burnes & to 1
CAME BOOM CHAD	(10)	CANADA (444)	CZECHOSL. (SZ)	CHIMA ⁷⁸ (30731)
C6460		CH11E (831)	DEHMARK (19-1	HONS KOMS (21395)
CAPE VERDE	(15)	COLOFBIA (1830)	F1HLAND (255)	1'@1A (13704)
EGTPT	1 16761	COSTA RICA (492)	FRANCE 1 2194)	INCOMESIA (3505)
EQ. GUINTA	6 47	CLBA (164)	SERMANY (1672)	JAPAN (12335) KHMSR R. (661750 0 9/3
ETHIOPIA	L 4741	DOMINICA (226)	GP. BPITAIN (96)	KOGEA . (74751 (50.0 %)
€¥90M	§ 5 1	ECUADOR (550) El salvador (570)	GPEECE E 3200) HUNGART E 501	LAGS (6A)
£155.75	[\$6] [\$193)	FP. GUIANA (67	ICCLAND (1961	MACAO (AMSI
ÇH AFFA	E	GUADALOUPE (61	14ELA140 (51	HALATSIA (7154)
GUINEA GUINEA-B.	į į,	GUATEMALA (290)	ITALY (1006)	MALDINES (2)
	1 1951	GUYANA (48)	LUNEI BOURG (23)	MIURITIUS (AB)
RENTA	(\$551	MAITI (310)	MALTA E 51	MONSOLIA 6 21
LESOTHO	1 431	HOMOUPAS (399)	MONAÇO (4)	NEPAL (1861
LIBERIA	f 2481	JAHAICA (251	NETHERLANDS (046)	PANISTAN (3833) PMILIPPINES (2642)
LIBYA	(1411)	HARTINIQUE (18)	MCEMAT (BOZ)	PHILIPPINES (Z662) SINGAPCEF (IE36)
MADAGA SCAR	(27)	MEXICO (3464) Neth_ANT, (208)	POLANO (243)	5FX LAN . (649)
MALAWI	(44)	MICARAGUA (\$44)	POSTUGAL (253) BCM4HIA (124)	THAILAND (8176)
HALI Mauritami a	(42)	PANAMA (725)	SPAIN (511)	VIETHAM (1714)
HC40CCQ	1 1 1 1	PAPASUAY (\$21	5469(H 546)	
HOZAMBIQUE	(11)	PERU (1072)	SHITZERLAND (\$231	MIDEAST-TOTAL (53407)
HISTP	1 271	PLEATO 8150 (777)	TLERET (1937)	
	(13557)	5URINAM (70) TRINIDAD (84)	USSR (224)	APAS EMIR. (1351
BHODESIA	(434)	UDUGUAT (149)	YUGOSLAVIA (221)	BAMBAIN (224)
DH14D1	47	USA (fall		IBAN (36421)
3. AFRICA 31×164L	(148) (67)	VEHEZUELA (3934)		IDAQ (100%)
SICROA L.	(196)	MEST INDIES (9)		159ACL (2352)
SOMALIA	1 1651			JOPOAM (51631 (22.7 %)
SUDAN	(\$70)			RUMATT (1178) LEBANON (4323)
SHAZILAND.	(23)	(8.9%)	(7.2 %)	LEGAMON (4323) OHAV (60)
TANZANIA	1 3411	(5 (5 / 7)	•	GATAR (135)
TOGO	t 141			34UDI AB. (3631)
TUNISIA	(#1) (197)			STRIA (645)
USANDA Up. Volta	(23)			AEUCH (,29)
ZAIRE	(142)			PACIFIC-TOTAL (())(6)
AIBHAS	(103)			
		•		
(10.4	91			AM. SAMOA (663)
(1014	~ /			AUSTRALIA (66)
				CAPOLINE I. (+10)
				GUAH (- 7) (1.0 %)
				GUAH (* 7) (1.0 %)
				MAPSHALL 1 -149)
				HEH ZEAL E . 31
				NEH GUINEA E 51
				DETHANG (/2)
				TAMITI (411
				TONGA (198) MIST SAMOA (115)
				MIST SAMOA (115)
				ALL PEGIONS (235750)
				*

Countries designated by two or more TOEFL candidates during 1977-78 and 1978-79 who specified plans to seek an undergraduate or a graduate degree in the USA or Canada as reasons for taking TOEFL.



^{*} Taiwan

remaining I percent from countries or territories in the Pacific region.*

- o Twenty-five of the 163 listed countries were represented by fewer than 10 degree-planning candidates; 34 were represented by 1,000 or more.
- o Prospective postsecondary students from six countries--Iran, China (Taiwan), Hong Kong, India, Nigeria, and Japan--accounted for more than half of the total population of degree-planning TOEFL candidates (126,146 or 53.5 percent).

For the 25 leading countries of origin in terms of number of degree planners, Table 1.2 shows the total number of test takers, the number of degree planners, and the percentage of all test takers who were degree planners, by level of planned degree program. Also shown is the rank of each country among all countries of origin of foreign students in U.S. colleges based on 1978-79 enrollment estimates (Boyan, 1980). The leading 25 countries accounted for 82.8 percent of all test takers (234,181 of 282,899) and 84.5 percent of all degree planners (199,188 of 235,738); they are listed in descending order with respect to number of degree planners.

o As indicated earlier, about 83 percent of all test takers were degree planners; Table 1.2 shows that 42 percent planned undergraduate and 41 percent planned graduate study in the United States or Canada.

However, for several native country contingents, lower percentages of test takers took TOEFL in connection with plans for postsecondary study—only 27 percent from the Philippines, for example, and 66 percent from Greece, 68 percent from Japan, and 75 percent from France. For many candidates from these particular countries, TOEFL appears to have been taken for reasons associated with career—related business or professional pursuits (e.g., to demonstrate proficiency in English for professional licensure or to an employer or prospective employer) rather than to facilitate plans for postsecondary study in the United States or Canada.



^{*}It is estimated (Boyan, 1980) that foreign students with countries of origin (defined not as native countries but as countries of citizenship by Boyan) in the TOEFL Asian region accounted for only approximately 29 percent of the total enrollment of foreign students in the United States during 1978-79; comparable enrollment figures, in percentages, for other TOEFL regions were Middle East (27), Africa (13), American (22, including a substantial Canadian contingent), Europe (8), and Pacific (1 plus).

TABLE 1.2

TWENTY-FIVE LEADING COUNTRIES OF ORIGIN OF DEGREE-FLANNING TOEFL CANDIDATES:
DATA ON NUMBER OF TEST TAKERS, NUMBER OF DEGREE PLANNERS, DEGREE PLANNERS
AS A PERCENTAGE OF TEST TAKERS, AND RANKING AS COUNTRIES OF ORIGIN
OF FOREIGN STUDENTS IN U.S. COLLEGES DURING 1978-79*

Country	Ranking as country of origin of enrolled foreign students	Data on TOEFL candidates, 1977-79 Number of Test-takers who plan degree program test-takers in U.S.A. or Canada					
	in U.S. colleges**	N _{tt}	All pl (N)	anners (2 _{EE})	υ.G. (Z _{tt})	Grad. (Z _{tt})	
Iran	(1)	38,363	34,421	(90)	58	32	
Taiven	(3)	32.558	30,731	(94)	17	78	
Hong Kong	(5)	25.631	21,395	(83)	62	21	
Ind ia	(7)	16.823	13,704	(81)	12	70	
Nigeria	(2)	14,173	13,557	(96)	85	10	
Japan	(6)	18.089	12,338	(68)	34	34	
Thailand	(11)	9,013	8,176	(91)	17	74	
Korea	(13)	8,625	7.475	(87)	27	59	
Malaysia	(16)	7.567	7,154	(95)	72	23	
Jordan	(20)	5,792	5,183	(89)	61	29	
Lebanon	(14)	4,703	4,323	(92)	70	22	
Venezuela	(8)	4,372	3,934	(90)	54	36	
Pakistan	(25)	4,307	3,833	(89)	43	46	
Saudi Arabia	(9)	4,005	3,631	(91)	51	40	
Indonesia	(29)	4,197	3,508	(84)	42	42	
Mexico	(10)	3,952	3,464	(88)	24	64	
Greece	(21)	4,825	3,200	(66)	35	31	
Philippines	(24)	9,974	2,662	(27)	11	16	
Brazil	(18)	3,098	2,481	(80)	19	61	
Israel	(23)	2,648	2,352	(89)	39	50	
France	(26)	2,939	2,194	(75)	18	56	
Ghana	(32)	2,267	2,193	(97)	81	15	
Turkey	(30)	2,190	1,937	(88)	37	52	
Singapore	(56)	1,991	1,336	(92)	71	21	
Colombia	(19)	2,079	1,830	(88)	48	40	
All Countries: Tot	al [#]	282,899	235,738	(83)	42	41	

*Countries are 11 ted in descending order by number of degree planners; countries with 2,000 or more test takers that are not in the top 25 with respect to number of degree planners are Egypt, Germany, and Vietnam.



^{**}Ranking among all foreign countries as country of origin of enrolled students in U.S. colleges during 1978-79, based on enrollment data provided in Boyan (1980).

For the 25 leading countries only, test takers (N = 234,181) and degree planners (N = 199,188), account for 82.8 and 84.5 percent of the respective all countries totals.

o There is marked variability among native country contingents with respect to the percentages of test takers planning undergraduate versus graduate study.*

Undergraduate planners were predominant for Nigeria, Ghana. Malaysia, Singapore, Hong Kong, Iran, Jordan, and Lebanon, for example; graduate planners were predominant for Taiwan, India, Thailand, Korea, Mexico, Brazil, France, and Turkey.

Of the 25 leading countries of origin of degree-planning TOEFL candidates, all but two (Ghana, ranked 32, and Singapore, 56) were among the leading countries of origin of enrolled foreign graduate students in the United States during 1978-79, according to their ranking based on extrapolated enrollment estimates provided by Royan (1980, Table 2.8). According to Boyan (1980, Table 3.5) the 1978-79 foreign student enrollment was approximately 56 percent undergraduate and 44 percent graduate; as shown in Table 1.2, the distribution of TOEFL degree planners with respect to level of intended degree program was essentially evenly balanced.



^{*}Countries with 2,000 or more examinees that were not among the leading 25 with respect to number of degree planners were Egypt, Germany, and Vietnam. Germany and Egypt had 46 and 73 percent, respectively; for Vietnam the percentage was 85.

SECTION 2. DEMOGRAPHIC AND TESTING-RELATED CHARACTERISTICS OF POSTSECONDARY-DEGREE-PLANNING TOEFL CANDIDATES: SUMMARY DATA BY NATIVE COUNTRY AND REGION

Table 2.1 provides summary data on selected demographic and testing-related variables for degree-planning Torra candidates from each of the 25 leading countries of origin (classified by TOEFL region), for all such candidates in each TOEFL region (without regard to country), and for all candidates without regard to region or "continent," respectively. Except for "number of test takers," the summary statistics in Table 2.1 are for all degree planners, without regard to level.*

In addition to data on the distribution of degree-planning candidates by level, as reported in the preceding section, Table 2.1 provides information on the following variables:

- o Percentage of candidates who reported that they had taken TOEFL previously (i.e., "repeaters")
- o Mean age at time of most recent testing (excluding data on undergraduate planners outside the 15-45 age range and graduate planners outside the 20-50 range)**
- o Percentage of males among postsecondary planners
- o Center locale (percentage tested outside the United States or Canada--i.e., in a "foreign" test center, though not necessarily one located in the native country of the candidate)
- Score-reporting pattern (percentages designating and not designating institutions or agencies to receive score reports)
- o Homogeneity/heterogeneity of native country groups with respect to reported native languages as reflected by two indices:

Percentage of all candidates accounted for by the most frequently reported native language

Index of Linguistic Fractionalization (ILF), an estimate of the probability that two candidates from a given native



^{*}Detailed data for degree planners, by level of the planned degree program, on the variables in Table 2.1 and other summary tables in this report are provided elsewhere for each of 138 native country groups with 10 or more degree planners during 1977-79 (Wilson, 1982).

^{**}A detailed discussion of the factors involved in this curtailment is provided later in this section.

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country group will not report the same language (after Taylor & Hudson, 1972)*

Data for the 235,738 degree-planning TOEFL candidates without regard to country (see the "all continents" data) on the variables just described indicate the following:

- o Many of the candidates were repeaters (about 32 percent).
- o A majority were males (72 percent), and a majority tested in a "foreign" center (71 percent).
- o Based on distributions curtailed as indicated, the mean age of undergraduate planners was 21.4 years and that of graduate planners was 26.3 years at time of most recent testing.
- o Judging from two indices of homogeneity/heterogeneity of country groups with respect to reported native language, for 50 percent of all native country contingents (those with 10 or more candidates) one language group accounted for 84 percent or more of the candidates; one-half of the contingents had ILF values of 0.21 or less.

It is evident, however, that there were substantial differences among TOEFL regions and the leading 25 countries of origin of degree-planning candidates with respect to the variables under consideration.

Previous Experience with TOEFL

Some 32 percent of the degree-planning candidates during 1977-79 reported that they had taken TOEFL one or more times previously, but there was marked variation in this test-taking pattern by region and by country within region among the leading 25 native country groups.

The repeated testing or repeater pattern was most prevalent among Mideastern (40 percent) and Asian (36 percent) candidates and least prevalent among candidates from the Pacific (13 percent) and from Africa and Europe (15 percent each); some 24 percent of candidates from the TOEFL American region were repeaters (see Table 1.1 for listing of countries by TOEFL regions).



^{*}At the regional and all continents levels, the values reported are medians of country data for countries with N of 10 or more.

ILF = $1 - \sum_{i=1}^{n} (P_i)^2$, where P = the proportion of candidates in the ith language group and n is the number of language groups.

o There are, however, marked differences by country. For example, more than one-half of all Saudi Arabian and Japanese candidates, and over 40 percent of those from Iran, Hong Kong, Taiwan, Indonesia, and Venezuela were repeaters; but, among candidates from Ghana, Nigeria, France, Israel, and India, only 10 percent or fewer were repeaters.

In analyses not reported in Table 2.1, when average TOEFL total scores by native country were correlated with the percentage of repeater andidates, by country, across 129 native country groups, a moderately strong inverse relationship was found (r = -.64)--i.e., across native country groups the incidence of repeaters tended to increase as mean TOEFL scores decreased. This finding is consistent with the reasonable expectation that first-time candidates, without regard to country, whose English proficiency, as reflected in TOEFL scores, falls below some personally or externally imposed criterion level will continue to take TOEFL periodically until that criterion level has been attained.

Sex Distribution

The population of degree-planning TOEFL candidates was predominantly nale (72 percent), but there are clear differences by region and among the 25 leading countries.

- o Some 86 percent of all African candidates and 82 percent of those from the Mideast were male, as compared to only 66 percent of Asian and American, 70 percent of European, and 60 percent of Pacific candidates.
- o Over 90 percent of candidates from Saudi Arabia, Lebanon, Jordan, Pakistan and Ghana were male, as were over 85 percent of those from India and Nigeria.
- o Over half (53 percent) of the candidates from the Philippines were women, as were almost half (47 percent) of those from Thailand.

It is assumed that differences among countries in the sex distribution of candidates reflects primarily differences in national custom and tradition affecting the role of women, their access to higher education, and their choices of particular fields of study.

Age at Time of Most Recent Testing

Age at time of most recent testing was calculated from the birth lates supplied by candidates. As noted in the table, undergraduate means reflect exclusion of data for candidates below a calculated age of 15 or



above the age of 45; graduate means reflect exclusion of candidates less than $20\,$ or more than $50\,$ years old.*

Means of the curtailed age distributions for all undergraduate and graduate planners, without regard to country, were 21.4 and 26.3, respectively; medians for these distributions (not shown in the table) were 20.6 and 25.4, respectively.

- o Among undergraduate planners, those from countries in the TOEFL European, American, and Pacific regions were youngest on the average (with means between 20.3 and 20.8), while those from the African region were considerably older than average (with a mean of 22.7); candidates from Asian and Mideastern countries had means of 21.4 and 21.3 years, respectively.
- o Among graduate planners, those from Pacific and European countries were younger on the average (23.5 and 25.2, respectively) than all graduate planners; those from Africa and America were slightly older than average (28.0 and 27.3, respectively), while Asian and Mideastern graduate-planning candidates (26.1 and 26.6) were typical.
- o It is interesting to note that the discrepancy in mean age between undergraduate and graduate planners varies considerably among the major countries of origin of degree-planning TOEFL candidates-from 3.3 years for Lebanon through 12.1 years for Indonesia.



^{*}Among TOEFL candidates, approximately 0.8 percent of undergraduate-degree planners were over 45 and only 0.1 percent were less than 15; of graduate planners, 7.0 percent were less than 20 and 0.8 percent were older than 50. Medians for uncurtailed age distributions were 20.6 and 25.1 for undergraduate and graduate planners as compared to medians of 20.6 and 25.4 for undergraduate and graduate planners in the curtailed distributions. The means reported in Table 2.1 for graduate planners are thus likely to overestimate somewhat the average age for all TOEFL takers with plans for graduate study while the means reported for undergraduate planners may be thought of as very nearly identical to those for all TOEFL takers with plans for undergraduate study.

While measures of central tendency that exclude data for self-reported graduate planners below the age of 20 may slightly overestimate the average age of all TOEFL candidates who report plans for graduate study in the United States or Canada, they probably provide somewhat more realistic estimates for that subpopulation of graduate-planning TOEFL candidates who are likely to be applying for admission to graduate school within a reasonable period of time than averages that include candidates under the age of 20. Only a very slight percentage of candidates taking graduate-level admissions tests in the United States are so young-for example, only 0.2 percent of GRE candidates during 1979 were less than 20 (Wild, 1980).

In evaluating these age data it is important to keep in mind (a) that although all the candidates under consideration indicated in response to questions included on TOEFL forms that they planned to enter institutions in the United States or Canada as undergraduate or graduate students intending to study for degrees, they did not provide information regarding the timing of their plans, and (b) that little or nothing is known regarding the characteristic pattern and timing of candidate flow or progression from initial TOEFL testing to application and enrollment as undergraduate or graduate students in the U.S.A. or Canada. Indeed, it is not known what proportion of the candidate population under consideration ultimat∈ly realized or will realize the plans reported. Moreover, due primarily to difficulties involved in framing questions about "educational level" that might be applicable worldwide, TOEFL candidates are not asked to indicate their current educational level in their respective educational systems, their enrollment status (e.g., enrolled vs. not enrolled in a school, college, or university), or expected or actual year of completion of educational programs at various levels.

The age data for degree-planning TOEFL candidates do indicate, among other things, that undergraduate-degree planners as a group were substantially older than entering college freshmen in the United States.*

o In fall 1980, based on data provided by Astin et al. (1981), the mean age of entering college freshmen was approximately 18.5 years, and over 83 reent were 19 or younger; the mean age of undergraduate planners the TOEFL candidate population was 21.4, and only 14 percent of the candidates were 19 or younger at time of most recent testing.

Data on the age distribution of "entering first-time graduate students" comparable to that provided by Astin for "entering college freshmen" are not available.

o If the age of all candidates taking GRE tests, including foreign candidates, is used as a basis for comparison, TOEFL graduate planners are also somewhat older than "prospective applicants for admission to graduate programs, without regard to level, in the United States." The mean age of GRE candidates during 1978-79, for example, was 25.9 years as compared to 26.3 years for TOEFL graduate-planners above 19 years of age (the age range that includes essentially all GRE candidates); 55 percent of GRE candidates but only 44 percent of TOEFL graduate planners were 24 or younger, including candidates less than 20 years old, who accounted for 7 percent of TOEFL but nly 0.2 percent of GRE candidates (Wild, 1980).



^{*}Some undergraduate-degree planning TOEFL candidates may ultimately seek admission at a level equivalent to that of first-time enrolled freshmen in U.S. colleges or universities, while others may seek admission with advanced standing.

Locale of Testing Cente=

More than seven in ten degree-planning can idates were tested outside the United States or Canada, i.e., in a "fo = eign" test center, though not necessarily in their native countries. However, there was marked variability by native country and region in this regard.

- o Of candidates from four TOEFL region s (Pacific, Africa, Asia, and Europe), 80 percent or more were tested in a foreign center; only 44 percent of all Mideastern c andidates and 59 percent of those from the TOEFL American region were tested outside the United States or Canada.
- o Among the 25 leading countries of origin, at one extreme, only 34 percent of candidates from Iran and 36 percent of those from Saudi Arabia and Venezuela were tested in foreign centers; at the other, foreign test centers accounted for over 90 percent of candidates from Pakistan, Singapore, Taiwan, Nigeria, and Ghana.

Pattern of Score Reporting

As previously noted, all of the TOEFL candidates included in these analyses indicated that they planned to enter colleges or universities in the United States or Canada. However, only 43 percent requested that the results of their most recent testing be reported to U.S. higher education institutions—38 percent designated only a U.S. institution and 5 percent designated both a U.S. institution and either a non-higher education institution (e.g., embassy, or agency concerned with international foreign students) or a postsecondary institution outside the United States. Fully 50 percent of degree-planning TOEFL candidates failed to designate any institution or agency to receive their test results, which, therefore, were transmitted to the examinees only. Agair, there are marked differences by country and region.

- o For 11 of the 25 leading countries of origin, the percentage of candidates failing to designate any institution was greater than the percentage designating colleges or universities to receive their test results.
- o Countries with relatively high perce intages of candidates who designated higher education institutions were India (70 percent), the Philippines (71 percent), Chana (69 percent) and France (68 percent). Less than 30 percent of caradidates from Saudi Arabia, Jordan, Iran, and Hong Kong did so.

As previously noted, nothing is known regarding the timing of TOEFL candidates' plans for undergraduate or graduate study in the U.S.A. or Canada, the characteristic flow or progression of candidates from time of initial testing to time of formal application for admission and enrollment



(if accepted), or the proportion of candidates ultimately realizing their plans. However, it is reasonable to hypothesize that TOEFL candidates who designate specific migher institutions to receive their TOEFL scores are nearer the "application stage" of the candidate-flow process than their counterparts who fail to do so, electing instead to be the sole recipients of score reports.*

To the extent that this hypothesis is consistent with reality, the percentage of candicates designating specific colleges and universities to receive their TO FL results provides one basis for estimating the proportion of TOEFL candidates during a given testing period who might be in or near the application stage of the candidate-flow process. On the other hand, prospective degree seekers who do not designate receiving institutions are likely to be interested primarily in assessing their level of English proficiency before proceeding with a formal application for admission—an act that presumably would be contingent in part upon the level of TOEFL scores at the time of most recent testing.

Following this line of reasoning, it is relevant to note (Table 2.1) that TOEFL regions and leading countries characterized by a high percentage of candidates who failed to designate receiving institutions are also characterized by a high percentage of repeating candidates. Among Mideastern and Asian candidates, for example, repeater percentages are 40 and 36 and nonreporting percentages are 64 and 50, respectively; European, and American candidates, repeater percentages of 15, 24 and 15 correspond to nonreporting percentages of 40, 39, and 38.

Analyses not resported in Table 2.1 indicate a substantial positive correlation (r = .72) across 129 native country contingents between these two summary statistics—i.e., percent repeaters vs. percent failing to designate institution—al score report recipients.

Homogeneity/Hesterogeneity with Respect to Native Language

For each native country group, two indices of homogeneity/heterogeneity with respect to reported native language were calculated, namely,



^{*}Some examinees not designating colleges or universities to receive reports of TOEFL Tresults may submit copies of their score reports directly to institutions in conjunction with an application for admission. Institutions receiving reports directly from candidates are urged to verify the reported scores by calling ETS. Little or nothing is known regarding the extent of this practice. Indirect evidence (the volume of telephone calls from institutions requesting verification of candidate-submitted score reports) suggests that the great majority of candidates failing to designate institutions to receive their score reports probably do not transmit those reports directly to institutions.

the percentage of candidates accounted for by the most frequently reported language ("main" language column in the table) and an Index of Linguistic Fractionalization ("LF Index" column). As previously indicated, the ILF is an estimate of the probability that two candidates reindomly selected from the same country will not report the same language. The two indices are extremely closely and inverse ly related. It is readily apparent, for example, that among the leading 25 native countries, those with the highest ILF indices (e.g., India, 0.88, Ghana, 0.72, and Nigeria, 0.71) are 10 west with respect to the percentage of candidates accounted for by the most frequently reported to a language (21, 48, a nd 45 percent, respectively).

At the "all continents" and "regional" levels, the values reported are median values of country desta for all countries which is not just the 25 leading countries of origin for which specific indices are shown.

- o The leading country groups are, in fact, somewhat more homogeneous linguistically, on the everage, than all count ries. For all countries with N of 10 cor greater, median main I anguage and ILF values are 84 percent and 0.21, respectively; for the 25 leading countries only, comparable values are 96 percent and 0.08 (not shown in the table).
- o Candidate groups from co untries in the TOEFL American, European, and Mideastern regions, typically, were most homogreneous linguistically, while those in the African and Asian regions, typically, were more heterogeneous.

These data indicate that for a majority of leading native country groups (and a substantial number of other country groups as well), a single language group is descriptive of the language background of the great inajority of candidates. It is important to recognize, of course, that a candidate's "native language" is not necessarily the candidate's "best' language for some or all purposes (e.g., speaking, reading, writing; academic vs. social). Detailed consideration is given to the principal language groups associated with each native country group in Section 6.

Table 2.2 provides data, comparable to that in Table 2.1 for the 25 leading countries (which accounted for 84.5 percent of all degree planning TOEFL candidates), for 1005 native country groups that accounted, collectively, for 99.2 percent of all degree planners during 1977-79.



MALCTERISTIC MONADUATE DE

region and Country 

TABLE 2.2, CONTINUED

REGION AND	TEST TAP		DEG	REE SEE	KERS	(XTT)#		PEPEAT ERS	- A	6E**	SEX	CENTER	300	OFE P	E POR 1	(500	(A) KG	WAGES
	ы	. 8	<u>U. 5</u>	<u></u>	AD	IDIAL			U.6.					. U.5		пн но	MAINE	
	<u>H</u>		<u>``</u> I	<u> </u>	ZII.	<u>. </u>	711	<u> </u>	TELAN) (MEAH)	Z MALE	Z FOR.	<u> </u>					INDEX_
ASIA-TOTAL	14162	47696	33	6 9850	48	117484	31	34	21.4	26.1	44	5-3	7	15	6	5-9	76	0.41
AFGHANISTAN	200	69	34	100	50	169	84	41	23.0	27.5	79	50	10	35	15	40	44	0.69
BANGLADESH	1106	438	49	567	51	1005	41	18	20.3	26.7	89	41	3	42	5	50	47	0.17
BUPHA CHINA (TAIWAN)	235 3255 6	123	52 17	71	30	194	83	19	21.5	26.9	65	6.5	7	44	4	45	86	0.25
HONG KONG	25631	5419 15959	62	25312 5436	75 21	30731 21395	94 83	43 46	23.8	25.9 23.3	59 60	74 70	12 11	27 15	4	52 67	4 d	6.02 60.0
INDIA	16823	1970	12	11734	70	13704	81	13	21.9	24.9	26	88	- 5	64	7	25	27	0.03
INCOMESIA	4197	17e0	42	1748	4.2	3500	84	41	20.5	32.6	74	77	á	23	5	55	87	0.24
JAPAN	18059	6105	34	6233	34	12335	68		22.6	27.1	65	70	5	38	•	53	97	0.06
KOREA	6625	2364	27	5111	59	7475	87	3.0	22.2	27.6	4.3	71	3	48	3	46	97	0.06
MACAO	567	319	56	166	29	485	86	36	20.3	23.4	52	83	34	15	9	42	84	0.28
MALAYSIA Mepal	7567 208	5444 30	72 14	1710 156	23 75	7154 186	95 89	19	20.5	27.4 30.2	71 83	75 94	16	32 39	3	50 54	52	0.58
PAKISTAH	4307	1869	43	1964	46	3833	89	17	21.4	26.6	92	90		44	7	43		
PHILIPPINES	9974	1057	11	1575	14	2662	27	5	21.7	26.7	47	71	ī	47		23	75	0.43
BINGAPORE	1991	1408	71	428	21	1836	92	14	21.1	Z6.9	63	92	17	28		49	73	0.43
SRI LANKA	750	218	2.9	431	57	649	87	9	21.3	27.7	77	9-4		44	14	33	64	8.48
THAILAND	9013	1541	17	4 5 3 5	74	8174	91	36	21.5	25.6	53	3.3	4	38	3	5.9	76	9,54
VIETHAN	1015	1313	ė ē	424	25	1719	ē.ā	30	£2.7	žá.÷	÷ 2	12	4	+5	1	فط	47	1.37
ВЕНТО	306	170	54	97	32	267	87	24	21.5	26.1	69	45	10	50	٠	35		
EUROPE-TOTAL	25039	7445	30	9481	38	16929	65	10	20.3	25.2	70	60	7	50	5	38	95	0.14
AUSTRIA	124	50	zž	100	45	150	67	7	21.2	25.4	6.9	65	3	70	4	23	91	0.16
BELGIUM	628	113	16	401	64	514	88	4	21.0	24.1	74	> 1	4	53	9	34	55	0.63
CYPRUS	1097	644	59	274	25	920	84	15	19.7	24.9	52	é :	7	25	9	58	91	0.17
DEMMYDA	34 3	76	21	118	33	100	53	6	21.1	25.1	÷ c	6 7	Ż	Z.F	4	3 9	e?	0.07
FINLANO FRANCE	433 2939	156 541	36 18	132 1653	30 56	288 2194	67 75	10	21.4	28.0 24.1	66	65 65	5	61 62	3	31 28	87 96	0.23
GÉRMANY	3634	733	29	434 7027	26	1672	46	70	21	25.7	59	82	11	50		34	97	0.06
GREAT BRITAIN	152	67	44	29	19	96	63	13	14.	26.3	64	82	â	43	7	42	37	0.79
GREECE	4825	1691	35	1509	31	3200	66	26	19.6	24.2	75	79	13	31	4	52	98	0.03
ITALY	1519	465	31	561	38	1046	69	12	20.2	26.2	69	74	5	61	3	32	97	0.06
NETHER LANDS	1183	430	36	416	35	846	7Ž	4	20.4	24.8	71	84	7	58	5	30	96	0.07
HORHAY	1034	404	39	398	30	802	78	. 5	21.6	25.4	78	Ģ.	. 3	67	3	33	95	0.10
POLAND	464	94	20	149	32	243	52	16	23.7	27.5	54	51	11	54	. 4	31	94	0.12
PORTUGAL ROMANIA	332 238	131 47	39 26	122 77	37 32	253 124	76 52	12 11	20.9	26.6 30.8	66 57	58 48	12 11	39 57	13	36 28	91 90	0.17 0.20
SPAIN	715	133	19	377	53	510	71	14	21.9	26.2	74	73	5	45	7	43	87	0.23
SHEDEH	857	269	34	251	29	540	63		20.3	26.1	58	89	3	60	ź	35	95	0.09
SHITZERLAND	855	207	24	316	37	523	61	Ģ	6.53	26.5	68.	60	3	61	3	32	66	0.49
TURKEY	2190	603	37	1134	5 2	1937	88	26	19.6	24.4	79	77	4	48	6	42	96	0.07
USSR	374	149	40	75	ZO	224	60	16	19.5	29.e	55	28	•	72	0	24	44	0.11
YUGOSLAVIA	360	45	13	177	49	222	\$ ₹	16	23.4	28.6	45	71	8	68	1	23		
OTHER	420	178	29	253	41	431	78	11	22.4	27.3	48	4.8	•	8.5	8	31		



REGION AND	TEST T		DEG	PEE SEE	KER	\$(XTT) *		REPEA		.GE **	SEX	CENTER	50	ORE R	E POR	T***	LANG	JAGES
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															_			
MIDEAST-TOTAL	59321	34230	54	19177	38	\$3407	70	40	£1.3	26.6	&Z	44	4	29	Ę	44	93	0.16
APAB EMIRATES	155		69		16			54	21.4	26.0	92	36	0	27	1	72	93	0.13
BAHRAIM	262		60	67	26		95	34	19.5		77	68	3	33	3	6 l	92	0.15
IRAH	34343		5-8		35		90	44	21.5	26.4	78	34	3	ž7	Z	6.5		
IRAG	1168		32	541	55		86	2.5	21.7	26.2	a 5	67	3	38	•	55	29	0.20
ISTAEL	2548		39	1321	50		59	1.	23.6	28.1	75	<u>81</u>	3	57	•	37	87	0.24
JORDAN KUHATT	5792 1232		4.1	1659 377	31		89	30	19.9	27.0	91	71	Z	25	z	70	94	0.12
LEBAHON	4733		61 70	1017	22	1128	92 92	39	20.6	26.5 23.9	88 92	49 61	3 17	23 31	2	72 44	95 95	0.10
OMAN	67		81	101,	- 4		90	58	21.9	25.4	92	43	'n	33	٥	67	92	0.16
GATAR	145		86	13	9	~ ~	95	46	21.2	25.3	99	20	ž	27	ī	70	93	0.14
SAUDI ARABIA	4005		51	1585	40		91	55	22.6	27.4	94	36	ž	26	ž	70	97	0.06
STRIA	516	403	49	242	30	645	79	32	20.7	26.6	57	61	13	34		49	93	0.13
YEMEH	173	9.3	48	75	43	158	97	30	21.6	27.5	93	75	7	26	3	65	93	0.13
OTHER	0	٥	0	9	0	0	0	0	0.0	0.0	0	0	٥	0	٥	٥		
PACIFIC-TOTAL	1800	1693	60	623	22	2316	63	13	20.3	23.5	60	69	18	31	14	37	87	0.15
AMERICAN SAMOA	837	415	47	247	25	663	75	14	18.7	23.7	51	94	47	4	21	25	40	0.17
AUSTRALIA	127		37	19	15	56	52	44	23.2	27.2	79	52	6	21	Z	71	70	0.50
CAROLINE ISLAND		724	72	186	18	910	90	70	20.6	22.2	61	69	6	42	ā	44	35	0.79
FIJI ISLANDS HADIANA ISLANDS	97 174	68 141	70 61	18 19	19	85 160	92	5 19	21.4	25.9 22.0	73 59	90 91	15 1	49 59	7 2	29 38	38 93	0.72 0.14
MARSHALL ISLAND		117	62	52	28	169	89	12	21.1	21.8	75	95	÷	92	ž	\$6	96	0.07
TAHITA	50	31	62	10	50	41	82	15	20.1	22.5	46	27	ž	80	õ	17	81	0.33
TONGA	111	69	62	21	19	90	ål	11	20.3	25.2	51	93	13	16	67	10	98	0.04
HEST SAMOA	131	71	54	44	34	115	66	10	22.2	22.8	60	94	13	29	30	29	99	0.02
OTHER	25	9	36	7	20	16	64	19	20.6	25.8	69	61	6	44	£S	31		
ALL CONTINENTS	282899	119592	42	116146	41	235738	63	32	21.4	26.3	72	71	7	38	5	50	84	0.21

WEXCLUDES CANDIDATES TAKING TOEFL FOR OTHER REASONS UNLESS OTHERWISE NOTED; ALSO EXCLUDES CANDIDATES IN INSTITUTIONAL PROGRAMS.

***AGE RESTRICTED TO 15-45 FOR UNDERGRADUATES, 20-50 FOR GRADUATES.

***FOR. = EMBASSY, AGENCY, FOUNDATION, FOREIGN HIGHER INSTITUTION; U.S. × U.S. COLLEGE OR UNIVERSITY.

***HORT FREQUENTLY REPORTED NATIVE LANGUAGE AS A PERCENTAGE OF ALL LANGUAGES REPORTED.

***BAN ESTIMATE OF THE PROBABILITY THAT THO CANDIDATES PICKED AT RANDOM MOULD NOT SPEAK THE SAME LANGUAGE.

(# & ## are median values, at regional-summary level, of country data for countries with N of 10 or more.)



SECTION 3. PERFORMANCE OF POSTSECONDARY-DEGREE PLANNERS ON TOEFL BY LEVEL OF PLANNED DEGREE PROGRAM AND COUNTRY OF ORIGIN

As seen in preceding sections, of 282,898 individuals who took TOEFL one or more times during the period from September 1977 through August 1979, some 235,738 (or about 83 percent) indicated that they did so because they planned to enter institutions in the United States or Canada to work toward a graduate or an undergraduate degree. Within the population of degree-planning TOEFL candidates, a total of 119,592 (or 50.7 percent) were undergraduate— and 116,146 (or 49.3 percent) were graduate—degree planners. This section presents data regarding the performance of these degree-planning candidates on TOEFL.

In evaluating TOEFL score data it is important to keep in mind the following characteristics of TOEFL (as described in the <u>TOEFL Test</u> and Score Manual, 1981):

o The Test of English as a Foreign Language is designed to measure the English proficiency for individuals whose native language is not English. Each form of the current test consists of three separately timed sections, with questions in multiple-choice format, and takes approximately two hours to complete:

Section I, Listening Comprehension (hereafter, also Listening or Listen), measures the ability to understand English as it is spoken in the United States.

Section 2, Structure and Written Expression (Writing or Write), measures mastery of important structural and grammatical points in standard written English.

Section 3, Reading Comprehension (Reading or Read), measures the ability of candidates to understand the meaning and the uses of words as well as the ability to understand a variety of reading materials.

o Three section scores and a total score are reported. Scores for the respective part scores (Listen, Write, Read) are reported on a 20-80 scale; the total score is reported on a 200-800 scale. Observed scores, however, ordinarily do not cover the full scale range. During the two-year period from September 1978 through August 1980, for example, observed minimum and maximum scores for Listen, Write, Read, and Total were, respectively, 20-70, 20-68, 20-67, and 240-677 (TOEFL Manual, 1981).

It is also important to note, in evaluating the TOEFL score statistics reported here, that for individuals with multiple TOEFL records (i.e., repeaters) only the most recent test result was used.

o For this reason, the means and standard deviations of TOEFL scores for undergraduate- and graduate-degree planners (and other



subgroups) reported herein are not directly comparable to those reported in the TOEFL Manual (1981).

o In compiling normative data for reference groups, as reported in the TOEFL Manual (1981), all score data for repeater candidates were included, not just the most recent results. Under the assumption that the most recent results for repeaters are likely to be higher than earlier results, on the average, then the means reported here and in the Native Country File (Wilson, 1982) should be expected to be somewhat higher than those reported in the Manual. That such is the case is indicated by comparison of the data for degree-level subgroups in Table 3.1 with data for these subgroups in the Manual.

Table 3.1 reports means and standard deviations of TOEFL scores for all degree planners (degree seekers), and for undergraduate and graduate planners, by TOEFL region and for 25 leading countries of origin (which collectively account for some 84 percent of all degree planners). In considering results for undergraduate and graduate planners, it is useful to keep in mind (see Section 2) that the typical undergraduate planner was over 20 years old (median age 20.6) and that the typical graduate planner was 25 (median age 25.1). As might be expected, undergraduate planners had somewhat lower TOEFL total scores than graduate planners (499 as compared to 511), a difference amounting to about .16 total-sample standard deviation units.

However, it may be determined from Table 3.1 that undergraduate planners in seven of the 25 native country contingents had higher TOEFL total means than their graduate-planning counterparts. This is inconsistent not only with the pattern for all candidates, without regard to country, but also with logical expectation.

o Although it cannot be assumed that the TOEFL degree-planning populations are representative of indigenous student populations at comparable levels in their respective countries, it is none-theless anomalous to find prospective graduate students earning lower scores than prospective undergraduate students on a test of "verbal skills" in contingents from Brazil, Colombia, Mexico, Hong Kong, Indonesia, Singapore, and Iran.

Examination of the section-score means is instructive. In six of the se seven contingents, graduate-degree planners had scores on Reading Comprehension that were equal to or higher than those for undergraduates—differences in mean TOEFL total scores for these subgroups thus were accounted for primarily by differences in Listening Comprehension (and, to a lesser extent, Written Expression) rather than in Reading Comprehension.

o In all of these contingents, undergraduate planners had higher Listening means than graduate planners (by about three scaledscore points, on the average); on Written Expression, the mean for undergraduate planners was in three instances equal to and in four



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REGION AND COUNTRY



instances higher than that for graduate planners. However, graduate planners equalled or exceeded undergraduate planners in Reading Comprehension in six of the seven contingents.

Items in the TOEFL Reading Comprehension section (vocabulary and reading passages), of course, are more like those included in standard tests of "academic ability" than are those in the Listening and Written Expression sections, and the graduate planners tended to do as well as or better than undergraduate planners on the "academic ability" component in six of the seven contingents; undergraduate planners were consistently higher only on Listening in the seven contingents under consideration.

Generally speaking, across the 25 leading native country groups, the pattern of undergraduate-graduate differences was similar:

o The mean Listening score for undergraduate planners was higher than that for graduate planners in 19 of the 25 leading country groups; the mean for Structure and Written Expression was higher for undergraduate planners in eight of the 25. However, with respect to Reading Comprehension, in only three of the 25 country groups was the mean for undergraduate planners equal to or higher than that for graduate planners, and in only one instance did undergraduate planners actually have the higher mean on this measure, which tends to parallel the "verbal" component in such widely used measures of academic ability as the Graduate Record Examinations Aptitude Test and the College Board Scholastic Aptitude Test.

It is apparent that the major source of observed differences in TOEFL total between graduate and undergraduate planners tends to be performance on the Reading Comprehension and, to a lesser extent, the Written Expression items. The data for all candidates (the "all continents" row) show that Listening means were identical for these two groups; that the means differed by one point (undergraduates 0.12 standard deviation units lower) on Written Expression; and that the means on Reading Comprehension differed by three points (undergraduates 0.33 standard deviation units lower). Looking at these differences in another way, it may be inferred that undergraduate planners tended to have higher Listening Comprehension scores relative to their scores on Reading Comprehension. Why this should be so is not immediately evident. Variable: such as amount and recency of formal ESL training may be involved, along with many others.

o Examination of data for degree-planning candidates by TOEFL region suggests that Listening means were somewhat lower, relative to means on other sections, for candidates from the African and Asian regions and somewhat higher in the same sense for candidates from the other regions.

Generally speaking, candidates from the TOEFL Mideastern and Pacific regions had the lowest mean TOEFL total scores; candidates from the European region had the highest.



o However, among the 25 leading countries, of the five countries with highest TOEFL total means for degree planners generally, all but France (565) were from the Asian region: the Philippines (580), Singapore (568), Malaysia (559), and India (553). The means for these countries were from .58 to .96 standard deviation units above the grand mean for all candidates. At the other extreme, the five candidate groups with the lowest TOEFL total means (Saudi Arabia, Jordan, Iran, Thailand, and Indonesia) included three Asian and two Mideastern candidate groups, with means ranging from .38 to 1.04 standard deviation units below the grand mean for all candidates.

In assessing and evaluating differences among candidates by reported native country, it is important to keep in mind that the presence of differences in performance on TOEFL among candidates from different native countries does not permit the generalization that there are fundamental differences in ability of the various national and language groups to learn English or in the level of English proficiency generally attained by them (TOEFL Manual, 1981).

For example, these native country contingents almost certainly differ, on the average, in amount and quality of formal preparation in English as a second language, amount of nonacademic exposure to spoken and written English, exposure to academic instruction in the English language, and so forth. Differences in opportunity to learn English as a second language, for instance, may help to explain the fact that—considering candidates from the 25 leading countries only—those from the Philippines, Singapore, Malaysia, and India had the highest TOEFL scores. Higher scores for candidates from the European region generally may be a function of both greater ESL exposure and significant overlap in linguistic heritage.

Setting aside questions regarding their origins, the observed differences in TOEFL scores for the 25 leading country contingents (as well as those shown in Table 3.2 for contingents from 105 countries, accounting for 99 percent of all degree-planning candidates) do provide a basis for inferring meaningful differences associated with native country in level of developed English language proficiency among TOEFL candidates aspiring to undergraduate and graduate study in the United States and Canada.



TABLE 3.2

TOEFL PART AND TOTAL SCORES BY REGION AND COUNTRY: UNDERGRADUATE AND GRADUATE DEGREE SEEKERS ONLY INTERNATIONAL AND SPECIAL PROGRAMS ONLY

· 1977-73 & 1978-79

AFRICA-TOTAL (24552) 49 7 52 5 52 7 511 66 (10416) 49 7 52 7 57 7 509 61 (6136) 51 8 52 9 52 9 517 72 ALGERIA (437) 51 7 50 7 50 8 502 65 1 120) 52 7 40 7 40 7 50 61 (6136) 51 8 52 9 52 9 517 72 ALGERIA (437) 51 7 50 7 50 8 502 65 1 120) 52 7 40 7 40 7 50 50 50 50 7 50 8 50 50 60 CAMEROON (336) 51 7 59 7 51 8 50 60 (239) 51 7 54 7 53 6 520 55 (97) 51 8 54 9 54 7 531 71 EGYPT (1676) 49 8 47 9 47 8 47 8 40 8 47 8 47 8 47 8 47 8 48 8 47 8 48 8 47 8 48 8 48 8 48 8 48 8 48 8 48 8 48 8 48 8 48 8 48 8 48 8 48 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	RESION AND COUNTRY			ALL DEC				_	UNDE	RGRADUA	TES		_		G.R.	ADUATES		<u></u>
ALGERIA (437) \$1 7 50 7 50 3 501 42		<u> </u>	<u>EN</u>				÷	<u>_(H)</u> _	EH				,	<u> (R) </u>	EH			TOTAL M SD
CAMERICAN (136) \$1.7 \$1.1 \$2.8 \$2.0 \$2.0 \$1. \$2.9 \$1.7 \$2.2 \$2.0 \$2.0 \$2.0 \$2.0 \$2.0 \$2.0 \$2.0	AFRICA-TOTAL	(2455	2) <u>49</u>	Z <u>52 5</u>	<u>52 7</u>	511 66	t	18416	49 7	52_7	52 7	509 61	ť	6136	51_8	52 9	52_9	<u>517 75</u>
ARGENTINA (586) 50 7 53 8 57 6 552 65	CAMEROON EGYPT ETHIOPIA GHANA IVORY CDAST KENYA LIBERIA LIBYA MOROCCO NIGERIA RHODESIA SOUTH AFRICA SIERRA LEONE SOMALIA SUDAH TANZANIA UGANOA ZAIRE ZAMBIA	(33 (167 (47 (219 (197 (185 (26) (141 (197 (185 (197 (185 (197 (6) \$1 41 \$3 41 \$3 50 40 50 40 50 40 5	7 54 7 97 97 97 97 97 97 97 97 97 97 97 97 9	\$2 9 47 9 50 80 57 9 49 6 55 7 51 7 91 7 52 9 52 9 52 7 53 7 54 7 55 7 55 7	57° 60 97° 7° 7° 515 7° 7° 501 501 53 405 0° 8° 8° 8° 8° 8° 8° 8° 8° 8° 8° 8° 8° 8°		239; 609; 364; 1847; 66; 733; 163; 767; 42; 12072; 359; 73; 149; 102; 183; 102; 75; 102;	51 7 51 9 53 7 54 7 55 9 57 9 57 9 57 9 57 9 57 9 57 9 57	50 9 50 9 57 6 50 7 56 7 50 7 50 7 50 9 52 6 57 9 52 6 57 9 52 6 57 9 52 7 54 9 55 7 57 7 44 8	55 9 57 9 57 9 57 9 59 7 59 7 59 5 55 5 50 9 52 9 55 5 50 9 52 9 54 9 7 54 9 7 7 54 9 7 54 9 7 7 7 54 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	\$20 55 475 03 500 73 557 53 476 02 506 01 610 55 514 77 505 50 551 50 551 50 552 73 552 00 6452 77 530 00 6452 77 531 50 6452 77 532 50 6452 77 533 50 6452 77 534 50 6452 77 535 50 6452 77 537 50 6452 77 547 50 6452 77 547 50 6452 77 547 50 6452 77 547 50 6452 77 547 50 647 50		97 1267 110 346: 129 155: 97: 644: 1485: 47: 46: 46: 46: 46: 45: 67: 81:	51 8 49 8 53 7 55 7 55 7 55 7 55 7 57 6 61 6 57 7 57 6 61 6 57 7 57 6 61 6 61 7 61 7 61 7 61 7 61 7 61 7 6	54 9 57 9 50 6 59 9 50 7 55 7 57 7 50 5 57 7 50 5 50 7 50 5 50 7 50 7 50 5 60 6 60 6 60 7 60 6 60 7 60 6 60 7 60 7	54 7 40 0 54 0 50 5 50 6 50 5 7 55 7 55 7 57 6 52 9 62 9 55 9 62 9 55 6 62 9 62 9 62 9 62 9 62 9 62 9 62 9 62	\$31 71 478 76 536 64 535 49 490 59 570 51 552 60 448 57 553 59 560 44 616 42 550 60 479 52 551 40 479 52 551 40 477 52 551 40 461 69 573 53
BOLIVIA (413) \$2 7 40 8 \$2 7 510 70 (316) \$5 7 40 0 \$1 7 512 60 (97) \$2 8 97 9 \$2 7 505 74 BPAZIL (2481) \$3 0 49 9 51 7 516 72 (599) \$5 6 49 9 \$2 6 510 76 (1882) \$5 8 49 0 \$5 4 7 515 70 CANADA (444) \$2 0 54 0 50 7 570 65 (193) \$2 7 51 7 51 7 60 7 51 7 60 7 60 7 510 7 60 CANADA (444) \$2 0 54 0 50 7 570 65 (193) \$2 7 51 7 51 7 60 7 51 7 60 7 51 7 60 7 60 7 51 7 60 7 60 7 60 7 60 7 60 7 60 7 60 7 6	AMERICA-TOTAL	(21048) <u>59 B</u>	39 9	537	517 72	ť	10199)	55_0	<u> 49 9</u>	52_0	516_74	ţ	10849)	53_0	<u> </u>	<u> 54_7</u>	<u>517 71</u>
OTHER (210) 59 6 55 7 55 7 561 62 (166) 59 6 55 7 55 7 569 60 (44) 57 6 53 8 56 0 552 67	BOLIVIA BRAZIL CANADA CHILE COLOMBIA COSTA RICA CUBA DONINICA ECUADOR EL SALVADOR GUATEMALA HAITI HONOURAS MEXICO NETH. ANT. NICARAGUA PANAMA PARAGUAY PERU PUERTO RICO URUGUAY USA VENEZUELA	(413 (2461) (4464) (631) (1630) (169) (256) (550) (370) (390) (390) (390) (725) (107) (777) (777) (777) (140) (261) (3934)) \$6 7) \$3 9) \$9 6) \$5 8) \$5 8) \$5 8) \$5 7) \$5 9) \$5 9] \$5 9	18. 0 17. 9 17. 6 17. 6 17. 9 17. 9 17. 9 18. 9 19. 9 19	52 7 52 7 54 7 55 7 55 7 55 7 55 7 55 7 55 7 55	510 70 516 72 570 65 521 79 515 72 523 75 500 69 512 79 504 70 519 70 532 66 495 77 520 75 532 66 532 66 532 69 543 75 543 75 544 74 552 71 554 74 590 68		316) 599) 193; 270) 1008) 288) 06) 1111) 337) 420) 161) 165) 293) 951) 166) 434) 466) 300) 613) 345) 481) 216) 2366)	55 7 55 6 55 7 55 0 55 0 55 0 50 0 50 0 50 7 50 0 50 0	49 9 9 9 49 9 9 9 49 9 9 9 49 9 9 9 49 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	51 7 52 0 52 0 52 0 52 0 52 7 56 7 56 7 52 7 53 7 53 7 52 7 53 7 52 7 53 6 51 7 52 7 52 7 53 0 53 0 53 7 54 9 8 53 7 55 6 55 7 55 6 55 7 55 6 55 7 55 7 55 6 55 7 55 7 55 7 55 8 55 7 55 8 55 7 55 8 55 8 55 8 55 8 55 8 55 8 55 8 55 8 55 8 55 8 56 8 57 8 58 8	512 69 519 76 558 62 519 74 519 74 521 76 521 76 522 76 523 70 524 76 525 74 525 74 525 73 525 73 527 78 527 78 528 78		97) 1082) 2513 561) 822) 2643 1151 1150) 129) 129) 1061) 2513) 421 1600) 259) 4321 659) 4321 659)	53	47 9 49 8 49 8 49 8 49 9 49 9 47 9 47 9 47 9 47 9 47 9 47 9	52 7 59 7 55 7 55 7 55 7 59 7 59 7 59 8 50 8 51 9 52 8 55 6 51 9 52 8 55 7 55 7 50 7 51 9 52 8 53 7 54 7 55 7 55 7 55 7 55 7 55 7 55 7 55	505 74 515 70 526 60 524 60 524 73 523 65 524 73 523 62 490 72 505 75 521 66 552 54 490 73 551 60 552 54 60 73 551 75 551 60 552 54 60 73 551 77 540 73 540 74 540 74



TABLE 3.2, CONTINUED

REGION AND COUNTRY		DEGREE KERS		O-DER	GRADUATI	ES			- 2 A I	DUATES		
	(N) EN HR	ITE READ TOTAL	_(H)_	LIST- EH H 50		READ M 50	TOTAL M 50	तमा	1.15T- EN M SD		READ h 50	7077L
JATOT-ALEA	(117484) 52 7 51	<u> </u>	(476C	6) <u>51_0</u>	50 0	51_5	511_49	(69530	51_7	51_0	53_7	510_66
AFGHANISTAN BANGLADESH BURHA CHINALTAIHAN HONG KONG INDIA INDONESIA JAPAH KGREA HACAO HALAYSIA PHILIPPINES SINGAPORE SRI LANGA THAILAHD VIETHAM OTHER	(169) 51 5 45 (1005) 50 6 51 (194) 52 8 49 (21395) 52 7 50 (21395) 52 7 50 (21395) 52 7 50 (35508) 50 7 45 (35508) 50 7 45 (7475) 50 7 50 (7465) 50 7 51 (7465) 50 8 50 (1866) 50 6 50 (3633) 51 0 51 (3633) 51 0 51 (3649) 56 6 55 (649) 56 6 55 (6176) 59 7 55 (6176) 49 7 40 (1719) 53 7 55 (6179) 53 7 55 (6179) 53 7 55	6 53 0 512 72 6 50 9 502 75 7 52 7 515 60 7 7 52 7 515 60 7 7 50 7 55 7 55 7 7 51 7 50 7 51 7 7 51 7 50 7 61 7 7 51 7 50 7 61 7 7 51 7 50 7 61 7 7 51 7 50 7 61 7 7 51 7 50 7 61 7 7 51 7 50 7 50 61 7 7 51 7 50 7 50 61 7 7 51 7 50 7 50 61 7 7 51 7 50 61 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(43: (1595) (1595) (177) (610) (236) (31) (544) (100) (100) (110) (154) (131)	0) 52 7 5) 49 7 4) 52 0 9) 51 7 4) 50 6 0) 52 9 9) 54 8	45 9 9 9 49 0 47 7 7 51 7 51 7 51 7 51 7 51 7 51 7 51	44 9 52 0 49 9 52 7 54 0 40 0 40 0 40 0 52 7 55 4 55 7 57 7 57 7 57 0 49 7 50 0 49 7 50 0 50 0	464 79 516 78 498 75 498 55 519 57 491 66 472 67 513 77 513 77 515 77 558 57 558 57 558 68 568 74 502 63 511 65	567 (553)2 (553)2 (11734 (12748 (6233 (511) (156 (1710 (156 (1575 (428 (431) (431) (440)	51 7 53 9 54 7	45 9 51 6 5 7 55 6 6 7 55 6 7 55 6 7 55 9 55 7 55 9 55 7 55 9 55 7 55 9 55 7 55 9 55 9 55 9 9 9 9	46 6 54 7 52 9 52 9 51 9 50 7 51 0 52 0 53 7 54 0 57 7 55 0 60 6 57 7 57 7	974 72 599 69 509 75 514 51 505 69 977 62 514 51 556 69 977 62 513 55 955 67 524 71 529 59 524 71 529 59 527 72 529 59 527 72 529 59 529 59
EUROPE-TOTAL	(16929) <u>57 7</u> 53	3 8 54 8 546 70	(744	8) <u>57. 7</u>	<u>5z 0</u>	52_6	538 72	(9481) <u>57_7</u>	5 <u>4</u> 0	56_7	551_67
AUSTRIA BELGIUM CYPRUS DENMARK FIHLAND FRANCE GERMANY GREAT BRITAI GREECE ITALY HETHERLANDS NORHAY POLAND PORTUGAL ROMANIA SPAIN SHEDEN SHITZERLAND TURKEY YUGOSLAV	(514) 59 6 56 (920) 53 6 46 (194) 61 6 5 (208) 60 5 57 (2194) 56 6 55 (1672) 60 5 57	2 6 58 6 583 69 5 6 58 5 555 52 7 6 58 5 555 52 7 6 58 5 555 52 7 6 58 5 581 78 8 7 57 9 554 63 8 7 57 9 553 61 8 7 57 9 553 61 8 7 55 6 566 52 9 7 52 8 531 79 5 7 55 6 566 52 9 7 52 8 531 79 6 7 7 55 6 568 52 9 7 57 9 559 69 1 8 57 7 55 6 56	(11 (64 (75 (15 (15 (169 (46 (43 (43 (13 (13 (20 (13 (20 (14 (13 (14 (13 (14 (13 (14 (14 (15) (15) (15)	4) 56 7 1) 56 7 7) 58 7 3) 57 7 9) 63 9 7) 60 5 3) 53 7 9) 56 6 5) 57 7	54 0 60 0 57 7 56 7 55 0 55 0 55 0 57 6 59 0 51 0 51 0 52 0 52 0 53 0 54 0 55 0 57 4 59 7 59 7 50 7 50 7 50 7 50 7 50 7 50 7 50 7	57 7 7 55 7 7 40 8 50 6 50 50 50 50 50 50 50 50 50 50 50 50 50	500 54 550 62 496 72 578 52 550 52 550 52 550 75 500 75	(401 (274 (118 (132 (1653 (939 (1509 (1509 (149 (122 (377 (377 (316 (1134 (75 (177	\$0	57 6 50 6 49 9 50 9 50 9 50 9 50 9 57 6 59 7 50 5 50 5 50 9 50 9 51 9 52 9 52 9 52 9 53 7 54 9 55 9 55 9 55 9 55 9 56 9 57 9 58 9 59 9 59 9 59 9 59 9 59 9 59 9 59	50 6 40 5 49 9 59 5 59 5 58 5 59 10 51 0 60 5 57 6 60 5 57 6 60 5 57 6 60 5 57 6 60 5 57 6 60 5 57 6 60 7 57 6 60 7 57 6 60 7 57 6 60 7 57 6 60 7 57 6 60 7 57 6 60 7 50 7 60 7	503 50 505 420 499 60 594 44 502 54 570 40 503 45 540 97 514 71 552 60 601 30 576 47 535 70 557 50 559 61 559 61 559 61 570 57 589 61 570 59 570 5
REHTO	(431) <u>58_4</u> 55	5 6 55 6 561 65	1 17	6) <u>59 6</u>	<u>54_8</u>	<u>54_7</u>	556 <u>66</u>	(253) <u>\$47</u>	<u> 55_0</u>	54_0	561_6



TABLE 3.2, CONCLUDED

REGION AND	ALL DEGRI SEEFERS		U-DERGHADUATES	GRADUATES
	LIST- HRITE (H) EN H 50		<u> </u>	TAL LIST- WRITE READ TO BL SD H 50 H 50 3 50 N E
MIDEAST-TOTAL (534071 <u>50 8 45 8</u>	<u>44 8 449 71</u> (34230) <u>51 9 45 8 44 8 464</u>	70 (19177) 49 4 45 1 45 4 565 73
ARAB EMIRATESO BAHRAIN (IRAM (IRAM (ISPAEL (JOROAN (KUMAIT (LEBAHON (OMAN (SAUGI ARADIA (STRIA (TEREN (TERE	224) \$2 6 90 9 34421) \$0 6 55 9 10091 49 8 94 8 2352) \$6 51 9 5183) \$0 7 54 8 1176) \$9 8 92 8 4321) \$2 7 49 9 601 \$1 7 45 9 136) \$9 7 91 7 3631) \$6 7 92 9 645) \$2 7 47 8 138) \$0 7 95 9	49 9 472 79 157 44 8 501 60 22275 44 8 555 73 1 368 50 9 520 74 1031 459 49 3524 422 74 41 55 47 42 75 41 45 75 47	1 51 7 44 7 42 6 455 52 46 9 43 9 471 1 51 8 45 8 44 8 461 1 51 8 45 7 44 8 461 1 51 8 45 7 44 9 508 1 50 7 49 8 43 7 550 1 49 8 42 7 41 7 437 1 52 7 46 8 47 8 464 1 49 7 41 7 49 6 456 1 49 7 41 7 40 6 456 1 49 8 41 8 40 7 200 1 52 7 46 8 45 8 474 1 52 7 46 8 45 8 474 1 51 7 97 9 40 9 476	81 (67) 52 7 56 9 44 8 479 79 8 9 6 9 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9
PACIFIC-TOTAL (23161 50 7 43 9	<u>43 8 451 72</u> (1693) <u>50_7 99_9 93_8 95</u> 9	<u>79</u> (623) <u>49 7 42 8 47 7 443 68</u>
AHER, SAMOA (AUSTRALIA (CAROLINE I. (FIJI 1514MCS (FIARIANA I. (HARSHALL I. (TAHITI (TONGA (HEST SAMOA (OTHER (66) 52 0 66 9 910) 69 7 67 8 26) 55 7 51 1 160) 54 6 60 0 169) 65 7 39 8 41) 52 7 49 6 90) 40 5 43 6 115) 51 7 45 6	46 9 476 62 474 42 7 442 66 724 51 8 525 42 68 47 7 487 61 6 141 40 6 416 58 6 117 50 6 509 55 6 31 41 5 447 46 6 69 45 8 470 60 6 71	1 50 8 42 9 41 9 445 1 51 7 45 8 44 7 468 1 60 7 63 8 42 7 449 1 52 6 45 8 46 7 467 1 52 6 45 8 46 7 467 1 57 7 40 8 41 6 426 1 53 6 49 5 51 5 507 1 40 5 44 5 43 5 450 1 53 7 47 8 46 8 489 1 52 9 47 11 45 12 478	70 (19) 52 9 50 11 49 12 505 101 60 60 60 60 60 60 60 60 60 60 60 60 60
ALL CONTINENTS (235738) <u>52 8 50 8</u> :	<u>50_9_505_73</u> _(119592) <u>52 0 49 0 49 9 499</u>	73 (116146) 52 8 50 8 52 8 511 72



SECTION 4. PERFORMANCE ON TOEFL (TOTAL) OF SELECTED DEMOGRAPHIC AND TESTING-RELATED CLASSIFICATIONS OF POSTSECONDARY-DEGREE-PLANNING CANDIDATES

Analyses reported in the preceding sections have provided information regarding selected academic, demographic, and testing-related characteristics of postsecondary-degree-planning TOEFL candidates who took TOEFL during the period from September 1977 through August 1979. Regarding this candidate population it has been shown, for example, that:

- o About half (50.7 percent) were prospective undergraduate and about half (49.3 percent) were prospective graduate students—the undergraduate/graduate division in percent ranged from 89/11 to 15/85 across 25 leading countries.
- o Almost one-third (32 percent) reported that they had taken TOEFL previously. For 25 leading countries, the repeater percentage ranged from 4 to 55.
- o More than seven in 10 (72 percent) were male and 28 percent were female. Across 25 leading countries, the male/female division, in percent, ranged from 94/6 to 53/47.
- o Some 29 percent were tested in centers in the U.S.A. or Canada (domestic centers) and 71 percent were tested elsewhere (in foreign centers). For 25 leading countries, the percent tested in domestic centers ranged from 6 to 66.
- o Only 43 percent requested that their TOEFL score results be reported to U.S. higher education institutions at the time of most recent testing; 50 percent failed to designate any institution or agency to receive their TOEFL scores (which were thus transmitted only to the examinees). Nonreporting ranged from 25 percent to 70 percent across the 25 leading countries of origin of postsecondary-degree-planning candidates.

Table 4.1 presents TOEFL total score means for all candidates classified according to these variables, generally and by TOEFL region, and for candidates from each of the 25 leading countries of origin of postsecondary-degree planners (see Section 3 for description of TOEFL scales). Although differences in performance on TOEFL (total and section scores) for undergraduate—and graduate—degree planners were considered in detail in Section 3, TOEFL total means for these subgroups are included in Table 4.1 for general comparative purposes.

For the designated candidate classifications, Table 4.1 indicates the following patterns of differences in mean TOEFL total:

Graduate-degree planners had higher TOEFL total means than undergraduate-degree planners (511 and 499, respectively)—true for 18 of the 25 leading countries, as noted in the preceding section.



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- o Among degree planners, women tended to do better than men on TOEFL total (means of 513 and 502, respectively)—true for 21 of the 25 leading countries.
- o Candidates tested in foreign centers tended to outperform those tested in the United States or Canada (means of 512 and 488, respectively)—true for 18 of the 25 leading countries.
- o Self-reported repeaters, at time of most recent testing, tended to have lower TOEFL scores than degree planners generally (mean of 450 as compared to a mean of 505 for all degree planners, including repeaters)—true for 15 of the 25 leading countries.
- o Candidates failing to designate any institution or agency to receive their TOEFL scores earned substantially lower mean scores than candidates who designated receiving institutions or agencies—true for all 25 leading countries.

For example, the mean TOEFL total of 486 for nonreporting candidates is more than 0.5 standard deviation units lower than the mean (526) for candidates who designated U.S. higher education institutions and 0.6 sigma units lower than the mean (534) for the relatively small group designating both U.S. higher education institutions and U.S.-based agencies or foreign higher education institutions. It is noteworthy that means for candidates reporting to U.S. colleges or universities, or other institutions, were higher than the mean for all graduate-degree planners (i.e., 511).

Formal explication of these trends, of course, is outside the scope of a descriptive assessment of candidate characteristics and test-taking behavior. However, some of the factors that appear to be relevant to an informed evaluation of the observed trends may be considered briefly.

- o The fact that for each of the 25 leading countries, score-reporting candidates had a higher TOEFL total mean than their nonreporting counterparts is consistent with a general hypothesis, advanced in Section 2, that reporting vs. nonreporting behavior reflects relative readiness (contingent in part on level of English proficiency) of candidates to become formal applicants for admission to undergraduate or graduate study in the United States or Canada. Prospective degree-seekers who do not report their scores to institutions may be interested primarily in assessing their level of English-language proficiency before proceeding with formal application for admission, an action that is likely to be contingent in part on reaching some criterion-level of performance on TOEFL.
- o Although repeater means were lower than all-candidate means for candidates from 15 of the 25 leading countries, repeaters had higher means in nine country groups (Iran, Jordan, Saudi Arabia, Thailand, Korea, Japan, Indonesia, Hong Kong, and Nigeria) and equal means in one (Taiwan). In evaluating these trends it is



useful to consider the fact that, for the nine countries in which repeater means were higher than all-candidate means, (a) the median all-candidate mean tended to be low (484 as compared to 505 for all candidates without regard to country) and (b) the median percentage of repeater candidates was high (44 percent as compared to 32 percent of all candidates without regard to country). The scores for repeaters were, of course, their most recent scores and presumably were higher, on the average, than their first-time scores. When initial TOEFL performance for a native country group is relatively low, it is plausible to expect not only a relatively high incidence of repetition (presumably interspersed with additional ESL training), but also that repeating TOEFL candidates should tend to outperform the first-time examinees (with comparatively low scores).

It is generally consistent with this line of reasoning to find that country contingents in which repeater means were much lower than all-candidate means were characterized by high initial test-score means (median = 553) and low incidence of repeated test-taking (median = 13 percent).*

- o Why candidates tested in the United States or Canada, generally—and those from 18 of the 25 leading native country groups—should have lower mean scores on TOEFL than their counterparts tested elsewhere cannot readily be rationalized. A variety of selective factors may be involved. For example, countries for which domestic—tested candidates had higher means than foreign—tested candidates (Nigeria, Taiwan, Hong Kong, Indonesia, Pakistan, Thailand, and France) were characterized by a proportionately smaller than average contingent of domestic—tested candidates (median = 16 percent) as compared to 29 percent of all candidates without regard to country.**
- o That women should tend to have higher TOEFL scores than men among degree planners in the TOEFL candidate population generally, and in contingents from 21 of 25 leading countries as well, is perhaps due primarily to selective factors. Women make up a minority of all degree-planning candidates (28 percent). It is perhaps relevant to note that the four countries in which TOEFL means for



^{*}For Brazil, Colombia, India, Malaysia, Israel, the Philippines, and Singapore, repeater means were 14 to 28 points lower than all-candidate means.

^{**}Countries with proportionately smaller contingents of candidates tested in the United States may offer more favorable and effective opportunities to learn English than countries with proportionately larger contingents tested in the United States. These latter contingents may come to the United States to obtain what they may perceive to be better and more efficient ESL instruction than that available locally.

men were either somewhat higher than or equal to those for women were characterized by a higher than average percentage of women (Taiwan, 41, Korea, 31, Philippines, 53, and France, 34, as compared to 29 percent overall).

o The somewhat anomalous finding that prospective graduate students earned lower TOEFL total scores than prospective undergraduate students in contingents from Brazil, Colombia, Mexico, Hong Kong, Indonesia, Singapore, and Iran is considered in detail in Section 3. At this point it is sufficient to call attention to the fact that in six of these seven contingents the Reading Comprehension mean for graduate-degree planners was equal to or higher than the mean for undergraduate planners. Undergraduate planners were consistently higher than graduate planners only on the Listening section. Thus the higher TOEFL total means of undergraduate planners were due primarily to their consistently higher performance on the Listening Comprehension section.

Table 4.2 presents data, comparable to that in Table 4.1 for the 25 leading countries, for contingents from 105 countries.



TABLE 4.2

HEAN TOEFL TOTAL SCORES FOR DEMOGRAPHIC GROUPS BY REGION AND COUNTRY: UNDERGRADUATE AND GRADUATE DEGREE SEEKERS INTERNATIONAL AND SPECIAL TESTING PROGRAMS ONLY

1977=78 & 1976-79

REGION AND	NO. OF		PEGPEE S	EEKERS		SEX	TEST	EFHIES	SELF-	_5C0RE	REPOR	I PATTER	Hee
COUNTRY	DEGREE SEEKERS	<u>u.s.</u>	GRAD.	TOTAL	HEN	HOMEN	FOREIGH	U. S CAHADA	REPEATERS	FOR.	V.5.	вотн	HONE
AFRICA-TOTAL	(24552)	509	\$17	\$11	509	523	514	497	487	524	523	525	494
ALGERIA	(437)	495	505	502	500	529	560	503	506	543(*)	513	548(*)	493
CAMEROCH	(336)	528	531	529	524	530	524	\$43	522	534(=)	5 34	536	514
EGYPT	(1676)	475	475	478	473	501	478	+7 7	471	490	488	513	462
ETHIOPÍA	(474)	508	536	515	517	509	515	514	503	504	528	498	502
GHANA	(\$193)	557	585	561	561	564	562	558	555	554	565	562 479(#)	555
IVORY COAST	(195) (888)	476 542	490 570	485 546	484 543	494 556	458 54	503 561	505 537	470(=) 566	903 545	%/9(=) 535	548
KENTA Liber i a	(260)	506	570 552	523	516	556 546	525	50e	518	538(#)		547(#)	
LIBYA	(1411)	416	99£	431	430	454	445	427	435	478	444	483(#)	
POPOCCO	(1917	514	542	533	533	533	538	511	531	560(#)		563(#)	
HIGERIA	(13557)	505	552	511	510	515	508	541	512	516	517	513	502
PHODESIA	(436)	553	504	559	560	555	559	560	566	579	561	559	548
SOUTH AFFICA	(168)	565	616	594	593	595	596	576	497(#)	604(#)		583(#)	
SIERRA LEOME	(196)	522	556	530	532	530	532	527	533	547(#)		550(=)	
SCHALIA	(165)	481	492	484	485	434	487	•72	461	539(#) 425		489(*) 502	465
SUDAN	(570) (301)	452 530	479	475 542	€75 542	478 546	474 539	453 546	481 542	573	484 535	550 ·	545
TANZANIA UGANDA	(147)	553	561 575	542 560	564	55Z	558	565	531(#)	570(=)		553(±)	
ZAIRE	(142)	443	461	461	454	498	451	489	478	457(=)		491(#)	
ZAMBIA	(163)	544	573	557	557	557	563	516	467(#3	560(=)		551(=)	
OTHER	(626)	500	512	504	499	532	506	509	505	524	515	528	488
AMERICA-TOTAL	(21048)	516	517	517	514	521	525	505	500	÷30	529	540	496
ARGENTINA	5861	553	552 505	352	549	559 523	551 522	555 496	533 497	560 493(#)	557 520	551 521(0)	543
BOLIVIA BRAZIL	(413) (2481)	512 518	515	510 516	506 514	520	517	511	502	516	527	534	499
CAMADA	(444)	558	578	570	576	558	543	573	535	570	577	595	549
CHILE	(631)	516	524	521	520	524	521	521	310	535	533	528	504
COLOMBIA	(1830)	517	511	515	515	\$17	525	500	509	517	527	540	496
COSTA RICA	(492)	521	524	523	519	535	529	499	508	222	534	548	507
CUBA	(169)	548	\$73	560	565	552	563	558	549	613(=)		\$56(#)	
DOMINICA	(226)	527	4.94	512	513	509	518	503	494	535	516	549	489
ECUADOR	(550) (570)	506	502	504	501	51Z	505	503	50& 50&	542(#) 493(#)		522 550(#)	488
EL SALVADOR Guatemala	(570) (290)	522 532	512 532	519 532	517 529	523 538	531 541	502 514	508 522	545(#)		537(+)	
ITIAN	1 3101	494	998 498	495	406	510	484	509	503	463(#1		497	476
HONDURAS	(399)	525	505	520	508	535	544	490	498	530	530	559	492
HEXICO	(3464)	525	521	522	520	530	526	515	513	525	531	544	504
HETH. ANT.	(206)	565	552	562	558	567	565	552	553	566(#)		564(#)	
HICARAGUA	(594)	509	497	506	503	510	521	497	500	506	518	533	491
PANAMA	(725)	518	504	513	510	518	519	497	500	515	528	528	492
PAPAGUAY	(52)	521	498	512	503	527	506	520	497(#)	409(#)		0(*) 531	507 499
PERU PICO	(1072) (777)	523	510 540	517 534	511 537	530 532	517 535	517 533	504 501	561 508(#)	525 537	539	515
PUERTO RICO URUGUAY	(140)	527 557	550	552 552	543	570	559	524	533(#)	547(#)		572(=1	
USA	(281)	572	536	564	558	571	563	566	507	586(#)		588(9)	
VENEZUELA	(3934)	486	493	490	490	491	515	476	482	506	508	518	474
OTHER	(210)	564	552	5 61	556	568	559	567	545(=)	557(±)	574	609(#)	540



TABLE 4.2, CONTINUED

REGION AND	NO. OF Degree		DECREE 3	EEKEPS		SEX	TEST	U. S	SELF-	SCORE	PEPOP	I PATTER	Hea
COMINI	SEEKERS	U.G.	GRAD.	TOTAL	DEN	HOHEN.	FOREIGN	CANADA	REPEATERS	FOR.	U.5.	BQ7H	HOHE
		****	WARK .			ASS. SEL		SALSEA.	- RELEATERS	LM	-A141	KAIII-	LISATS A.
ASIA-TOTAL	(117486)	\$13	\$18	\$16	516	514	516	514	509	520	535	541	499
AFGHAHIST)"	(159)	464	474	470	467	483	470	470	482	473	472	512	451
BA≓GLADES:.	(1005)	516	509	512	5 C &	552	511	526	513	515	526	544	497
BURMA	(194)	498	509	502	504	499	504	498	487	475(4)		534(*)	
CHIHA (TAIWAH)	(30731)	490	514	509	510	509	509	513	509	495	535	538	494
HONG KONG	(21395;	519	505	515	513	519	509	530	520	541	533	543	505
IHDIA IHDONESIA	(13704)	534	556	553	550	570	555	538	526	545	561	570	530
JAPAN	(3508) (12338)	49 <u>1</u> 472	477 504	484	481	493	482	493	440	493	495	500	476
KOREA	(7475)	494	513	488 507	485 510	493 500	493 508	477 506	495	499	498	521	478
MACAD	(485)	513	495	507	500	516	502	533	512 512	501 499	519	524	494
MALATSIA	(7154)	558	559	559	554	571	563	546	512 536	499 567	534 574	508	504
HEPAL	(186)	527	522	523	528	500	525	498(=)	504	576(#)		575	545
PAKISTAN	(3833)	518	524	521	518	550	521	523	513	503	538	560(*) 530	511 504
PHILIPPINES	1 2662)	560	594	586	580	580	507	563	559	566	586	584	566
SINGAPORE	(1036)	568	567	500	568	569	569	553	527	578	593	580	549
SRI LANKA	(649)	566	555	560	556	573	559	571	546	522	575	565	. 547
CHAILAHT	(5176)	464	472	471	457	475	469	478	480	481	488	494	459
VIETNAM	[1719)	502	505	503	503	504	510	50Z	502	520	508	526	489
OTHER	(267)	511	\$20	514	519	504	539	493	B12	539	517	\$55(*)	404
EUROPE-TOTAL	(16929)	538	\$53	544	542	254	547	540	519	53 +	55+	54.5	\$28
AUSTRIA	(150)	580	583	582	579	588	583	573	564(*)	572(9)	584	602(=)	566
BELGIUM	(5141	558	585	579	578	581	579	574	559	570	535	605	564
CYPRUS	(920)	496	499	497	495	507	497	504	479	493	518	534	483
DENMARK	(194)	578	594	588	587	589	588	585	569(#)	586(*)		583(+)	
FIHLAND	(288)	568	582	575	572	577	574	569	543(=)	581	575	602(#)	
FRANCE	[2194]	550	570	565	565	565	563	575	557	561	569	566	556
GERMANY	[1672)	579	583	581	57a	585	579	592	574	586	585	596	572
GREAT BRITAIN	(961	560	540	554	545	571	546	590 502	519(=) 506	520(*) 505	594 522	520(#) 548	526 502
GRIECE	(3200)	508	514	510	508	517	513 553	552	546	559	556	562	545
ITALY	(1046)	554	552 601	553 596	55Z 596	555 595	595	60Z	588	602	599	601	587
NETHER LANDS	(846)	591	576	566	376 566	546	565	584	554	579	567	590	559
HORMAY POLAND	(802) (243)	555 527	535	532	531	533	533	531	525	517	543	561(4)	
	(253)	529	557	542	542	543	553	527	514	523	543	581	534
PORTUGAL ROMANIA	(124)	559	559	559	557	562	559	559	497(=)	568(*)		617(#)	
SPAIN	(510)	542	549	547	543	556	550	539	530	571	550	571	537
SHEDEN	(540)	584	594	589	509	589	587	604	593	607(#)		611(#)	
SHITZERLAND	(523)	572	576	574	571	502	573	581	557	500	580	592	561
TURKEY	(1937)	498	510	505	499	530	509	491	499	503	519	526	487
USSR	229)	518	526	521	524	516	510	525	506	537(4)	520	413(#)	521
YUGOSLAVIA	(222)	540	525	528	524	537	529	528	519	543	535	544(#)	503
OTHER	(431)	556	544	541	54 E	554	864	554	820	544	B75	503	\$31







TABLE 4.2, CONCLIDED

REGION AND COUNTRY		NO. OF DEGREE	DE	GREE SEI	EKERS		EX	7657 0		SELF-	SCORE	PEPORT	PATTER	494
COUNTRY		EENIRS.	v.s.	GRAD.	TOTAL	_ MEN	HOMEN	FOREIGN	U. S.= Canada	REPORTED REPEATERS	EOR.	U.S.	вотн	HONE.
			-											
HIDEAST=TOTAL	ι	53407)	464	465	464	462	475	474	456	467	473	407	505	452
ARAB EMIRATES		1351	455	447	453	453	458(=)	449	455	461	-=-(*)	443	480(=)	443
BAHRAIN	i	2241	471	474	472	465	497	478	458	469	458(4)		513(#)	
IRAN	i	344211	463	456	461	460	464	467	458	469	450	405	497	451
IPAQ	ì	1009)	464	454	458	456	471	461	452	463	494	465	474	449
ISRAEL	ì	2352)	508	543	528	5z1	550	528	526	507	532	537	548	511
JORDAN	i	5183)	456	966	459	454	509	465	445	464	470	472	503	453
KUMAIT	i	1125)	437	448	441	436	475	447	434	450	460	458	452	434
LEBANON	ì	43233	466	501	491	488	53z	498	461	*86	500	510	521	469
OHAH	ì	50)	969	482(#)	466	962	503(4)		457	472 472	===(3)		(=)	
RATAR	i	136)	434	422(#)	433	432	487(#)		428	437	407(#)		943(#)	
SAUDI ARABIA	ì	3631)	430	443	436	435	457	454	425	440				
SYRIA	i	645)	474	491	481	978	501	490	966	441	460 514	452 491	453	429
YEMEH	i	158)	475	454	466	463	511(*)		447	453			\$37	459
	•	,	4,4	-34	400	-0.5	2771-1	4/3	44/	422	493(#)	9/7	499[#]	450
OTHER	Ĺ	0)	(#)	(#)	(#)	(#)	(=)	(9)	[#]	(#)	(2)	(=)	(=)	~~~(±)
PACIFIC-TOTAL	. (\$316)	454	443	451	448	456	450	463	447	449	462	450	444
AMERICAN SAMOA		6631	445	442	444	437	451	444	438	429	445			.37
AUSTRALIA	ì	663	468	505	478	479	476(4)		452	462		456	445	437 465
CAROLINE ISLAND	3 i	9101	444	433	942	438	447	441	450	456	429	446	437	440
FIJI ISLANDS	ï	863	542	511	535	539	526	533	556(#)	542(#)	538(#)		530(*)	
MARIANA ISLAHDS	i	160)	487	490	487	488	486	488	480	460	367(=)		539(4)	
MARSHALL ISLAND		169)	424	397	416	411	429	415	426(=)	419	412	428	448(4)	
TAHITI	- i	41)	507	479(#)	500	516	487	463(#)	514	517(=)	567(=)		~~~(#)	
TONGA	ì	901	450	440	447	438	456	445	478(#)	437(#)		478(=)		410(#)
HEST SANOA	i	115)	484	448	470	469	473	467	530(e)	467(=)	510	485	457	452
				****			4,3	707	834141	4071-7	310	703	73/	435
OTHER	(16)	475(#)	573(*)	519	523(=)	512(*)	544(#)	413(=)	463(=)	(•)	542(=)	586(+)	434
ALL CONTINENTS	()	357361	499	511	505	502	513	512	488	496	514	526	534	486

EXCEPT FOR "NO. OF DEGREE SEEKERS" (ON MICH THE TABLE IS BASED) ALL NUMBERS ARE HEARS. HEARS BASED ON N'S LESS THAN 15 ARE FOLLOHED BY "()". WHEN THE NUMBER OF CASES IS 0 "---" IS SUBSTITUTED FOR THE MEAN. #AFOR. # EMBASSY, AGENCY, FOUNDATION, FOREIGN HIGHER INSTITUTION; U.S. # U.S. COLLEGE OR UNIVERSITY.



SECTION 5. DISTRIBUTION AND TOEFL TOTAL MEANS OF GRADUATE-DEGREE-PLANNING CANDIDATES BY INTENDED AREA OF STUDY

Slightly fewer than half (49.3 percent) of postsecondary-degree-planning TOEFL candidates during the two-year period from September 1977 through August 1979 indicated that they were taking TOEFL in connection with plans to study for graduate degrees in U.S. or Canadian institutions. TOEFL candidates "applying for graduate study" are instructed to find the name of the department (field) in which they plan to study in a list provided in the TOEFL Handbook for Examinees (formerly the Handbook for Applicants; see Exhibit 5A).

If a candidate does not enter any department code (including "99" for an unlisted department), the TOEFL office will consider the address incomplete and will send a score report to the candidate only.

Table 5.1 shows the mean TOEFL total score and the percentage of graduate-degree planners in each of several classifications with respect to intended field or department:

- Designated a graduate department in humanities, social sciences, biological sciences, or physical sciences (see Exhibit 5A for fields included in each area)
- o Designated a school of business or law
- o Did not designate any intended department or school (or designated one not listed in Exhibit 5A).

Data are provided for all graduate planners without regard to country ("all continents") and by TOEFL region, and for candidates from the 25 leading countries of origin of degree planners (undergraduate and graduate) classified by TOEFL region.

It is evident from Table 5.1 that a very high percentage of all graduate planners did not designate departments; the "other" category accounted for 60 percent of all candidates (which includes only a small number of candidates designating an unlisted field). There are marked differences by TCEFL region and among the 25 leading countries in this regard.

- o Almost three-fourths (74 percent) of candidates from the Mideastern region did not designate departments, and 85 percent of the relatively small number of graduate planners from the TOEFL Pacific region failed to do so; however, 50 percent or more of those from Africa, the Americas, and Europe designated departments.
- o Candidates from the two regions with the highest percentages of candidates not designating specific departments, or entering "99" for "department not listed," were lowest on TOEFL total.



Exhibit 5A

Lepartments (Fields) of Graduate Study Classified By Broad Areas, and Instructions to TOEFL Candidates: From the TOEFL Handbook for Applicants, 1979-80

LIST B: Department Codes

This list is to be used only by students applying for **graduate** study. All others are to fill in 00 as the department code for each institution or agency they list on the chart and in area 4 of the admission ticket and answer sheet.

Business Schools. Use 02 if you are applying to a graduate school of management (business)

Law Schools. Use 03 if you are applying to a graduate school of law

Graduate Schools. If you are applying for graduate study in a field other than business or law, copy the appropriate code from the list below

HUMANITIÉS	97 Government	43 Norseng
11 Authoritisty	Bo Mistory	77 hulidion
12 Alchitecture	 Industrial Pelations 	44 Occupational Therapy
76 Alt History	and Personner	45 Optometry
13 Custom (Anguages	88 International Retailers	46 Osteopathy
25. Comparative Literature	18 Journalism	D8 Parasidology
53 Dramatic Arts	90 tibrary Science	56 Pathology
ta English	91 Physical Education	at Pharmacy
79 far Eastein Languages	92 Povincal Science	48 Physical Therapy
and Literature	93 Psychology	49 Physiology
15 Fine Arts Art Design	94 Public Administration	50 Public Health
16 French	55 Slave Studies	51 Veterinary Medicina
17 German	79 Social Psychology	Si in magy
58 Italian	95 Social Work	30 (nr er blologicar sciences
04 Linguistics	96 Sociology	
19 Music	97. Urban Development	PHYSICAL SCIENCES
57 Near Eastein Languages	(មិខដ្ឋសភភ កិត្តភភភដ្ឋា	54 Applied Mathematics
and Ellerature		61 Astronomy
20 Philosophy	EIOLOGICAL SCIENCES	62 Chemistry
21. Religious Studies or Religion	31 Agriculture	78 Computer Sciences
22 Aussan	32 Anatomy	63 Engineering Aeronautical
23 Spanish	05 Audiology	64 Engineering Chemical
24 Speech	33 Bacteriology	65 Engineering Civil
10 Other modern languages	34 Biochemistry	66 Engineering Electrical
98 Diher humanities	35 Brorogy	67 Engineering Industrial
	36 Biophysics	68 Engineering Mechanical
FOCIAL SCIENCES	37 Bolany	69 Enginearing other
27 American Studies	38 Dentistry	71 Geology
\$1 Anthropology	39 Entomology	72 Mathematics
 Eartematrications 	40 Forestry	73 Metallurgy
84 Economics	06 Genetics	74 Mining
15 Education (including M A	41 Horrié Économics	75 Oceanography
in Teaching)	25 Hospital and Health Services	76 Physics '
01 Educational Administration	Administration	59 Statistics
09 Educational Psychology	42 Medicine	60 Other physical sciences
70 Geography	07 M ob-ology	Use 99 for any department set listed



12

FIELDS (DEPARTMENT AND CORRESPONDED)
LEADING COUNTR

REGION AND

TOTAL LALLÉILLOSI Generally speaking, candidates designating specific departments, regardless of field, had higher TOEFL total means than candidates who did not do so.

- o At the "all continents" level, for example, the mean of 494 for the large "other" (nondesignating) group is from 0.4 to almost 0.9 standard deviations lower than means for candidates designating areas of study.
- o Among the 25 leading countries, almost without exception, the mean for nondesignating candidates is lower than the mean for any classification of candidates by designated field.

Among all prospective graduate-level candidates the percentages designating each area of intended study are shown below.

Intended area of study	Percentag	ge blae
	Field desig- nators only	All graduate- degree planners
No field designated		(60)
Physical science	38	(15)
Biological science	12	(5)
Social science	20	(8)
Arts and humanities	8	(3)
Business school	20	(8)
Law school.,	1	(1)

The entries in parentheses indicate the percentages, from Table 5.1, of all graduate-degree planners, in various response cateogories.

According to estimates of the distribution of foreign students in the United States in 1978-79 by field of study but without regard to level (Boyan, 1980), some 34 percent were enrolled in physical science fields, 17 percent in biosciences, 20 percent in social sciences, 11 percent in arts and humanities, 16 percent in business and management, and 1 percent in law. Thus, these graduate-degree planners generally appear to be distributed by intended field in much the same way as enrolled foreign students, both graduate and undergraduate. However, differences among the leading countries are evident.

- o Contingents of prospective graduate students from some countries are heavily concentrated in one intended area of study while those from other countries are rather widely distributed among the intended areas.
- o At the same time, it can be seen from Table 5.1 that for a majority (15) of the 25 leading countries, physical science fields attracted the largest proportion of candidates; social



sciences were most frequently indicated by candidates from five countries and business school by candidates from two countries.

The very small group of candidates planning to attend law school had the highest mean TOEFL total score (558), but the mean for prospective business school students was almost as high (556). For 19 of the 25 leading countries, the mean for prospective business students was higher than means for students oriented toward any of the arts and sciences fields.

However, perhaps the most important observation regarding the data on TOEFL scores is that the means for candidates designating fields, by and large, are higher than the means for all graduate planning candidates (including, of course, those not designating fields, who characteristically have lower TOEFL scores).

o it is reasonable to infer, following a line of reasoning developed in previous sections, that candidates designating fields are much nearer the formal application-for-admission stage of the candidate-flow process than those who fail to do so. It is also reasonable to infer that the mean TOEFL scores for candidates designating fields constitute a better estimate of the level characteristic of "prospective applicants for admission" than the mean for all graduate-degree-planning TOEFL candidates.*

Table 5.2 provides data on the variables under consideration in this section for graduate-degree planning candidates from each of 105 native countries (which collectively accounted for 99.2 percent of all the degree planners, graduate and undergraduate).



^{*}For the 25 countries in Table 5.1, the correlation between the percentage of graduate planners not naming fields and the percentage of all planners (graduate and undergraduate) not designating institutions to receive score reports is very high, r = .93.

TABLE 5.2

**TOTAL SCORES FOR FIELDS OF STUDY BY REGION AND COUNTRY: GRADUATE DEGREE SEEKERS ONLY (INTERNATIONAL AND SPECIAL PROGRAMS ONLY):=

19	77-	78	3.5	78-	. 79

resion and Country	LA	101 LL 1	TAL IELDS)			ħΣ.	AHS BY	FILLD					PER C	EHTS BT	FIELD*	**	
	H		HEAH	4215 <u>4409</u> 1	50C 5CI	813 3 51	PHT SCI	8U5.	LAH	OTH- EP==	ARTS EHUM	50C 5CI	ŠIO SCI	PHY SCI	BUS.	LAH	OTH- ER==
AFRICA-TOTAL	1 5	136	517	547	543	529	533	554	545	495	•	12	11	14	9	1	50
ALGERIA	ŧ	317		502	47 ∆	504	524	555	488	499	2(+)	7	3(=)	21	3(=)	1(#)	63
ÇAMEROOH	t .	971		525	553	526	547	545	573	510	6(=)	13(=)	13! #1			7(+)	
ŧG:PT ŧ!≈i2PIA		2571		505	485	47Z	500	514	419	467	3	6	19	21	5	0(#)	55
ELMIESTA ELMIESTA		110) 346)		557 594	5-52	528	572	577		517	2(=)	6(=)	10(#)			0(=)	
IVERY COAST		346 J 129 J		516	597 492	580 453	590	60Z		569	6	16	13	18	14	0(*)	
KENTA		155)		585	575	566	468 558	512 503	590	481	3(+)		5(*)		29	1(=)	
LISERIA	į	97)		565	554	557	527	563		564 548	6(=) 4(=)	21 13(=)	14 9(+)	7(#) 5(#)	11 20	0(=) 0(=)	
LIBTA	i e	441		505	466	550	467	445	e,	540	1(=)	13(4)	3 4(=)	5 = 1	1(0)	D(=)	
nur ou do	. ;	276	3+2	5/7	559	516	545	565		531	9(=)	9(#)	9(=)		12	0(=)	
NIGERIA	1 16	651	553	556	560	564	571	569	591	532	4, -,	17	15	15	11	0(=)	
R#COESIA	ŧ	771			570	604	504	583	620	587	0(=)	26	16(*)		5(*)	3(#)	
SOUTH AFRICA	ı	95;	616	644	600	637	627	620	642	610	8(=)	23	6(=)	12(4)	9(=)	2(=)	
SILARA LEGAZ SOMALIA	ì	*71	555	625	564	565	595	602		508	9(=)	23(=)	23(*)	15(a)	4(=)	0(=)	36
SUGAN	į	(±). 183.	492	547	519	465	486	613	384	492	2(=)	4(=)	4(=)		2(=)	2(=)	
TAMZANIA	-	10:	56 l	5 A	452 553	463 573	481 559	511 561	50Z	473	2(*)	12	17	12	6	2(*)	
USANDA		951	575	1 3	576	5-6-5	554	301 377	619	566 559	3(#) D(#)	25	14	9(=)	18	0(#)	
Z419E	i	671	451	502	494	490	454	472		473	10(=)	20(*)	7(=) 15(=)	16(=) 6(=)	24(*)	4(=) 6(=)	29(#) 42
ZAPSIA		81)	573	502	549	5-61	5-8-3	575	615	5-00	4(#)	26	9(+)	14(*)	2(=)	Z(=)	63
<u> </u>	: ;	14;	511	54.a	524	4 94	515	523	575	**7	5	15		11	11	1(=)	40
AMERICA-TOTAL	(108	49)	517	637	\$33	514	522	553	552	5 03	5	12	8	16	9	1	49
ARGENTINA	, ,	95;	552	588	551	542	552	539	578	540	3		_		_		
BOLIVIA		971	505	493	56 Z	540	971	547	5/6	590 496	5 4(#)	15 6(*)	8 7.∌1	18	7	2(#)	42
BRAZIL		321	515	547	5.12	499	521	551	540	505	-(-,	13	7, 7	8(#) 17	7(*) 7	0(=)	67
CAHADA		511	578	561	5 70	554	693	603	620	56Z	7	23	15	12	19	1(4)	48 23
CHILE	(5	611	524	543	5÷1	513	523	545	572	514	ė	13	4	17	17	0(#1	51
CCLOPBIA		221	511	494	526	511	511	54 Z	497	504	ă.	ïi	ě	12	11	1(=1	50
COSTA RICA		44)	524	543	B50	517	547	553	568	509	5(=)	÷	11	10	9	3(4)	54
CUBA		83)	573	571	591	56 Z	569	420	* = 5	549	11(=)	17(=)	11(+)	12(*)	14(=)	0(=)	35
COMPLICA -		151	400	501	513	520	498	482	420	145	3(=)	13	19(=)	20	4(0)	1(+)	47
EL SALVADOR		13) 50)	502 512	515	522	470	527	527	410	496	6(=)	6(=)	7(#)	13	\$(#)	0(4)	64
GUATEMALA		291	532	523 558	519 568	503 497	503	555		505	4(=)	7(=)	6(=)	13	11	0(#)	57
HAITI		251	498	220 549	519	485	537 496	576 534	 	526	2(+)	3(=)	7(#)	15	9(=)	0(#)	64
2400 ga 45		(6)	505	516	509	403 400	491	561	512	477 496	6(#) 4(#)	14	14	10(*)	12	2(#)	42
MEXICO		13)	521	540	538	511	523	550	556	506	2	12	12(=)	7(*)	13(*)	0(=)	56
HETH, ANTILLES		12)	552	562	591	500	615	587	657	534	S(#)	14(*)	7 2(=)	22 5(4)	12 5(+)	1 2(#)	42 67
MICAPAGUA		.01	497	501	516	513	480	556		488	3(#)	8(#)	6(m)	7(9)	9(4)	0(#)	47
PANAMA		(9)	504	552	510	532	499	549	548	495	3(+)	9	8	12	3(#)	1(*)	64
PAHAGUAY PERU		(2)	498		473		521			491	5(=)	18(#)	0(+)	23(=)	0(=)	5(+)	55(e)
_7.5		91	510	517	526	508	479	553		506	5	7	5	15	10	2(#)	55
		(2) (2)	540 550	555	547	543	540	536		523	6	30	16	11	9	2(=)	25
		5)	536	564	574 569	519	587	614		537	5(#)	16	30	14(4)	4(#)	0(=)	29
	1 156		493	509	507	502 497	513 520	606 534		532 480	0(=) ♦	6(#) 9	9(#) S	23 14	6(#) 6	5(*) 1(=)	51 62
OTHER	(4	41	552	499	620	544	559										-



RESTON NO COUNTRY		TGT:				MEA	H3 81	FIELD					PER CI	ENTS BT	FIELD™	:-B	
		н	MEAH	ARTS ARCH	50¢	510 501	PHY SCI	BUS.	FYR	07H=	APTS AHUM	500 501	810 501	PHY SCI	5U3.	LAN	OTH-
ASIA-TOTAL	ι	69583)	315	531	\$33	\$34	544	% 5.7	<u>ş</u> el	5-02	3	7	4	16	8		41
AFGHAHISTAN	ŧ	100)	4 74	561	485	488	471	462	546	456	5(#)	15	15	15	3(+)	1(=)	46
BANGLADESH	- (5671	509	537	525	512	525	526	487	400	3	7	5	26	7	0(=)	53
BLALL	ı	71 1	509		490	457	523	544	+	# 6 0	0(*)	3(=)	≜(#)	39	3(=)	0(+)	4.9
CHINA (TAINAN)	1	253121	514	537	534	542	537	546	549	505	Ź	•	3	12	•	٥	74
HONG KONG	ŧ	5+361	505	523	5 4 3	550	535	500	550	433	Ž.	6	2	6	. 6	0(=)	78
IMOIA	ŧ	1173-1	556	5/1	577	5-6	56.4	5.75	554	53*	ž	ŝ	¥	34	7-	8	30
INDONESIA	(1746)	477	455	478	453	453	520	502	473	5	11	8	10	ž	1(*)	66
JAPAN	- (95331	504	514	513	490	506	5 3 5	5.3.2	4 96	ð	3.1	ž	9	9	1	60 55
KOPEA	(51111	513	515	531	510	523	5-7	557	503	6	12	*	16	8	0	33
MACAO	ı	1661	495	≈7 <u>1</u>	565	523	552	551		560	2(2)	5(4)	Ž(=) 7	4(8) 8	2(#) 11	0(=) 0(=)	53
MALATSIA	(17101	559	554	573	587	579	5 96	997	541	4 3(=)	17 12	3(+)	10	P(#)	0(=)	67
HEPAL		1561	522	551	534	483	557	5 3 9		514	9 7	* 5	6	27	9	1	50
PAR ISTAH	(19641	574	534	532	520	535	562	5 3 5	510	ž	14	11	14	Ζĺ	î	34
PHILIPPINES	1	1575)	5 94	600	404	577	599	516	613	579 540	* 3(*)	19	1(=)	-1	£ì	0(=)	54
SINGAPORE	· ·	428)	567	₽78 -	601	5-53	569	920						-	4	8(8)	41
SRI LANKA	(431)	555	560	531	563	561	651	410	549	3(≠)	. 3	10	34 7	4	1	
THAILAND	- {	6635)	472	508	479	188	495	•90	503	465	3	10	3 5	ž ė	4	4(=)	44
VIETNAM	(400)	505	519	\$ 5a	555	449	5-A B	5-1-	495	31-1	*	₽	å e		,	
OTHER	(97)	520	553	554	537	553	571	522	490	5(=)	10(=)	5(0)	9(=)	je(=)	ž(=)	54
EUROPE-TOTAL	ŧ	94811	553	\$71	549	554	550	580	565	539	•	10	•	19	12	3	47
AUSTRIA	ı	100)	563	568	610	623	603	609	531	575	4(#)	8(=)	2(#)	7(=)	11(#)	4(#)	64
BELGIUM	ı	4011	585	609	592	580	591	559	603	574	7	•	3(#)	12	Z 0	5	43
CIPRUS	ť	2741	499	579	513	531	522	554	370	488	1(=1	8	2(#)	11	5(#)	0(=)	72
DEHMARK		118)	594	614	605	595	580	577	612	598	7(+)	14	3(#)	9(=)	23	2(*)	42
FINLAND	ž.	1321	582	563	603	56Z	553	578	518	586	3(#)	10(=)	7(#)	3(=)	11	2(*)	64
FRANCE	- (16531	570	572	571	552	571	584	569	56 Z	7	6	3	26	19	4	33
GERMANT	į.	636)	583	587	604	578	575	500	590	576	11	12	6	14	7	•	42
GFEAT BRITAIN	•	29)	540	520		564	544	623		512	3(=)	0(#)	14(=)	21(4)	10(=)	0(=)	52
CAFECE	t	15091	514	541	521	525	525	550	55A	504	3	ð	*	16	. 5	0(#)	44
ITALY	ţ	551)	552	548	553	5 3 Z	542	574	605	551	•	. 9	•	16	10	2(*)	50
NETHEPLAHOS	(*16)	601	612	611	605	604	607	611	590	4	16	•	. 6	10	8	38
HC^mA1	4	3961	576	592	501	580	٧٠٥	562	625	509		11		13	26	2(+)	38
POLANO		149)	5 3 5	554	541	572	525	603	560	520	14	10	4(#)	28	4(*)	3(+)	38
PORTUGAL	ŧ	122)	557	523	57Z	532	535	583	503	564	4(=)	5(-)	9(+)	13	7(=)	1(=)	61 62
ROMANIA	1	77)	559	531	577	524	564	420		548	8(*)	5(=)	4(=)	32	9(#)		53
SPAIN	(3771	549	549	550	547	523	565	566	551	7	13	4(=)	12	11	1(#) 2(#)	53 45
SHEDEM	(251)	594	587	602	589	607	605	597	585	4(+)	11	6(#) 7	11 13	21 15	10	37
SHITZERLAND		316)	576	598	595	579	558	593	587	562	ě	10 7	•	31	15	E(#)	47
TURKET	•	717-1	510	531	537	513	521	539	465	492 500	3	9(#)	Z A(=)	31	3(=)	0(=)	3.2
USSR	;	75)	526	554	517	503	525	583	510	509 525	11(=) 7(=)	10	6(=)	29	2(=)	2(=)	44
YUGOSLAVIA	-	177)	\$25	565	559	459	\$13	645	210	243)(H)	10	0(-1	≝ ₹	£(=)	£(-)	
OTHER	í	253)	564	\$84	576	572	577	588	610	540	51#1	15	6	23	7	6(m)	41



TABLE 5.2. CONCLUDED

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	-	N	HEAH	4873 14.74	500 501	210 XI	Pat SCI	805.	LAH	OTH- ER**	2164 [W-1]	50C 5CI	BIO SCI	PHT SCI	BUS.	w	01H= <u>E</u> ₽##
MIDEAST-TOTAL	ī	191771	405	5 C 7	4.98	480	492	517	533	453	ŧ	•	3	11	•	c	74
ARAB EMIRATES	ı	281	• 4 7		491		466			431	0(*)	18(*)	01# 3	14(6)	0(=)	0(=)	68
MIAFINA	t	~ · 1	474		482	444	510	223		971	0(=)	7(*)	÷(=)	9(≥)	1(=)	0123	7ė
IRAH	í	121463	454	4-3 5	447	464	432	493	479	447	1	5	3	7.9	3	0(=;	75
EARI	1	6411	454	4.56	460	441	468	503	* + *	448		6	13	17	Z	0(=)	5 9
ISPAEL	1	13511	543	555	563	572	553	500	577	525	4	2.7	4	Z 1	10	1(=)	41
J14249	1	10571	n 2 à		427	541	475	524	* ' -	453	₹ .	5	9	â	- ÷	6(2)	77
RUHAIT	1	3771	448	530	454	470	455	4.95	45.4	441	3(*)	5	3(*)	7	2(4)	0(-)	80
LEBARION	1	1017)	501	523	540	567	517	578	530	465	1101	3	•	12	7	1(*)	72
OMAN Satar		6.)	452				529			455	Š(*) Š(*)	0(#)	Q(#)	33(#1	C(#)	0(*) 2(*)	67(P)
54UDI ARADIA	i	13:	422 443	490	440	456	487	527		424 432	3: - 1	Ç(*) 9	5(+) 2	15(*) 9	≎(*) 3	01=1	75
218IV Pacet wardin	1	19291	491	517	425	507	481	543	563	406	3 7	2(=)	I 6	11	2(*)	0(=)	62
TEMEN	ì	751	454	445	446	478	477	343	403	452	3(≠)	4(=)	5(9)	4(4)	D(=)	1(=)	83
	•								***			**	••-	****		• •	
DTHER	ţ	0 1	***			***					¢(₩)	O(=)	0(≠)	0(#)	0(#1	D(=)	D(=)
PACIFIC-TOTAL	i	9231	4=5	451	562	471	464	479		÷33	2(*)	5	4	Z(4)	2(")	Ģ(*)	85
AMERICAN SAMOA	ŧ	2471	442	393	443	488		450	***	441	0(#)	1(=)	2(=)	0(4)	0(4)	0(#)	97
AUSTRALIA	i	19)	505			632	515	597	*=#	478	0(=)	0(+)	11(=)	11(=)	5(4)	0(=)	74(+)
CAROLINE ISLS.		1051	435	447	476	449		423		425	2(=)	7(4)	5(+)	01 = 3	2(4)	0(-)	85
FIJI ISLANOS	•	15)	511		605	516	530	570		485	0(=)	6(=)	17(#)	22(=)	6(=)	0(=)	50(=)
MARIANA ISLS.		191	490			430		577	= = +	489	0(-)	0(=1	5(+)	0(+)	5(#)	0(#)	89
MARSHALL ISLS.		521	397	360	392	442		420		397	2(=)	12(=)	4(=)	0(=)	Z(=)	0(=)	79
TAHITI	•	107	479	367	495	503	~	512	÷ ÷ ×	477	10(=)	20(=)	10(=)	0(=)	20(-)	0(=)	40(#)
TONGA	1	21)	440	455	363	523	-20	455		436	10(=)	5(+)	5(#1	101=1	10(4)	0(=)	62(m)
HEST SANCA	ŧ	443	448	510	446	429	437	+13	===	943	91=1	9(-)	5(=)	5(#)	2(+)	0(=)	70
DIHER	Ĺ	7)	\$73		410	625	433			529	0(*)	\$9(a)	\$9(#)	14(#)	0(=)	0(#)	29(#)
ALL CONTINENTS	(11	6146)	511	536	533	526	5 36	554	558	494	3	å	5	15	6	1	60





^{*}GPACUATE DEGREE SEEKEPS ONLY: EXCLUDES ALL CANDIDATES REPORTING OTHER REASONS FOR TAKING TOEFL.
***PPEDCHINANTLY NO RESPONSE: ALSO INCLUDES FIELD NOT LISTED.
***PPEP CENTS BASED ON H''S LESS THAN 15 ARE FOLLOHED BY "(*)". WHEN THERE ARE NO CASES "---" REPLACES THE HEAN.

SECTION 6. MOST FREQUENTLY REPORTED NATIVE LANGUAGES OF POSTSECONDARY-DEGREE-PLANNING TOEFL CANDIDATES, BY NATIVE COUNTRY

In completing TOFFL forms, candidates are asked to identify their "native language" by referring to a comprehensive list of languages provided in the TOEFL Handbook and selecting the appropriate language (see Exhibit 6A).* More than 120 different languages are listed. As noted in Section 2, postsecondary-degree-planning candidates in the respective native country groups differ substantially in degree of homogeneity/heterogeneity with respect to reported native languages, as reflected in two indices:

- o Dominant Language Index (DLI) -- the percentage of all candidates reporting the most frequently reported language (a measure of linguistic homogeneity).
- o Index of Linguistic Fractionalization (ILF)—an estimate of the probability that two candidates selected at random from a given native country contingent will not report the same language (a measure of languistic heterogeneity).**

Table 6.1 shows the dominant (most prevalent) and second most frequently reported languages for candidate contingents from 25 leading countries of origin of degree-planning TOEFL candidates, and the associated ILF. In the table, country contingents with the same dominant language are grouped; each country is identified by TOEFL region. The TOEFL score statistics shown for each country group are based on data for all degree planners, without regard to language or level of planned degree program, not just data for those reporting the designated languages. Several features of the data in Table 6.1 are noteworthy:

- o It is apparent that ILF values increase as the DLI values decrease.
- o For 16 of the 25 leading countries, 90 percent or more of all degree planners were members of the dominant language group; in 21 contingents 80 percent or more of the candidates reported the dominant language.



^{*}Although the list is comprehensive, it is not exhaustive, and provision is made for candidates to indicate that their native language is not one of those listed.

^{**}It is important to recognize that "native" is not explicitly defined in instructions given to TOEFL candidates. An individual's native language (e.g., language of the parental family) is not necessarily the current primary language, and individuals may, for instance, report "native" languages that are not indigenous to the reported native country, etc.

Exhibit 6A

List of Native Languages and Corresponding Codes, and Instructions to TOEFL Candidates: From the TOEFL Handbook for Applicants, 1979-80

9 Native Language Code: Look for your native language in List D on page 13. Then, on your registration confirmation ticket, copy the code number that is next to your native language. Remember, there are many languages spoken in the world, not all of them are included in List D. The languages in the list are arranged by geographic area. If you do not find your language under one geographic area, check the list carefully to see if it is under another. If your language is not in the list at all, enter 000 in the boxes under "Native Language Code." After you have finished this section, your registration confirmation ticket should be completely and properly filled out. Keep your ticket in a safe place, since you must take lit to the tast center on the day of the test.

LIST D: Native Language Codes

AFRIC 4	AMERICAS	357 Pushty	453 lithuanwn
101 Attikuans	203 Armara]ne Rawithan	4್ಷ ಟ್ವೀಕಲ್ಪಗಿತ್ತಗ
104 Asan	419 Dutch	360 Sinani	455 Madese
101 Althors	ton the	je t tanggete	នាទី១ ២០១៩ក្នុងស
510 A:456	434 French	354 Sundanese	45a Polar
110 Bambara	201 Guarani	367 faga og	461 Portuguese
1)1 Semba	461 Pontuguese	370 lame	464 Romanan
113 Berber	205 Guechua	37° Talar	457 Russian
114 Chichewa	478 Spanish	3/3 Telugu	475 Serba Crowle
116 El.a		376 1ma-	473 Sievas
422 English	ASIA	3/y Tibetan	475 Sigvene
119 (we	301 Assamese	182 Turu	478 Spanish
434 french	304 Raluch.	384 Uighur	481 S∞edish
122 Fulani	305 Bengali	טסיט 185	484 Turkish
175 Ga	306 Bihari	388 Netramese	48. Ukrainian
127 Gaila	307 Burmese	391 Visayan	
133 Mau S	310 Cambodian (Khmer)	343 Yı	MIDDLE EAST
136 (be	312 Cebuano	396 Zhwarg	501 A140K
139 Kikungo	315 Chinese		401 Aimen⊒n
142 Askuyu	422 English	EUROPÉ	#22 Engish
176 1/6-272	434 French	401 Aiftenan	434 French
145 Linguia	320 Guaran	404 Basque (Euskara)	SOA FAIS
148 Luba Luiua	323 Hindi	467 Bulgarian	507 Hebre₩
مثامین با ۱۵۱	áite nocana	410 Calaian	
153 (40	328 Indonesian	413 Czech	PACIFIC REGION
156 Matasasy	331 Japanese	416 Danish	422 English
(ochbaell) senium Edi	332 Javanese	419 Dutch	n چښې ا 1 6⊖
162 Mende	335 Kampada (Kanarese)	422 English	434 French
461 Partuguese	338 Kashmiri	475 Estanuan	604 Kusakan
164 Sancho	339 Kazakh	428 Finnish	607 Marshallese
161 Seped	341 Anakha Yongokan	431 Femish	ģ10 இத்தைமு™
166 Sesoino	340 Korean	434 French	613 Ponapean
167 Selswana	342 Kuidish	438 Groigian	616 Samoan
169 Sismali	-43 Lao	437 German	619 Tahilan
170 Shona	345 Malay	440 Greek	622 Tongan
173 Somali	JAE Majyajam	443 Hungarian	625 Trukese
179 Tapinya	348 Marathi	447 Icelandic	628 Umham
182 Two Fants	351 Sepan	450 Italian	631 Yapese
185 Wold	353 Onya	452 Latvian	
188 Yoluba	355 Punata	-	
191 Zuku	And a series		
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- o Three languages (Spanish, Arabic, and Chinese) were dominant for three countries each; each of the remaining 16 native country groups was characterized by a different dominan t language.
- In several instances, "Unknown" is listed als the second most prevalent language. This means that either the "language not listed" code or nonresponse to the language question accounted for a higher percentage of candidates than any listed language code, other than that for the dominant language...*

It may be seen in the table that, of the leading 25 countries, those high est on the ILF (and lowest on the DLI) were from the Asian and African regions (India, Ghana, Nigeria, Asia, Iran, and the Phi ippines).

Data previously reported (see Section 2, Ta bles 2.1 and 2.2) indicate that linguistic diversity is more - characteristic of candidates from African and Asian countries - than of candidates from other TOEFL regions.**

Some nominal rate of nonresponse to background questions is expected. However, for a number of countries (see Table 6.2), the "urknown" category accounted for 10 percent or more of the candidates or for more candidates than any designated language. These do not seem to be "nominal" rates of nonresponse.

It may be determined from Table 6.2 that the great majority of these candidate contingents were from countries in the African region. These countries tend to rank high on an Index of Ethernic and Linguistic Fractionalization in national populations (Taylor & Hiudson, 1972), and the candidate groups are also high on the comparable lindex of Linguistic Fractionalization based on candidate data. Thus, it seems reasonable that I languages other than those listed may be involved for perhaps a significant proportion of candidates in these particular countriesive, those identified as having the highest percent ages of "unknown" nat ive languages.

**The ILF measure based solely on language for TOEFL candidates from dif ferent countries is relatively strongly associated across countries (r = .64) with a similar Index of Ethnic and Linguist ic Fractionalization based on patterns of ethno-linguistic mix in the populations of the respective countries (see Section 7, Table 7.4).



^{*}In evaluating the percentages for "unknown" it must be remembered that the is designation appears in TOEFL files not only for candidates who re-sponded to the language question by indicating that their native language was not included in the list provided (see Exhibit 5A), but also for candidates who simply failed to respond to the question on namive language.

considering only the 25 leading countries of origin, median DLI and ILF values were, respectively, 96 percent and .07; for all native country groups with 10 or more candidates, median values for these two indices, respectively, were .84 and 0.21. Thus the typical leading country contingent is more homogeneous linguistically than the typical country contingent generally.

In evaluating the TOEFL scorre means it is important to keep in mind (a) that contingents from the respective countries differ makedly with respect to composition on variables that are related to performance on TOEFL (e.g., level of degree pleanned, sex ratio, percent tested in the U.S.A. or Canada); (b) that the re is considerable variability in means among country contingents with the same dominant language; and (c) that TOEFL files contain no information about the amount, quality, or recency of ESL training and/or nonacademaic English language experience among the candidate contingents from the trespective countries. In light of these limitations, it is of interest to note patterns of differences between Listening Comprehension and Readling Comprehension means (see Section 3).

- o Listening means are five or more points higher than Reading means for candidates from Irana, Israel, Saudi Arabia, Lebanon, and Jordan; however, Reading means are three or more points higher than Listening means for candidates from India, Ghana, Nigeria, and Korea.
- o Such findings raise questions, of course, regarding the relative ease of development, for given language groups regardless of country, of skills involved in understanding spoken as opposed to written English passages. However, it is relevant to note that of the five country contingents with greatest Listening-over-Reading superiority, three (Iran , Saudi Arabia, and Lebanon) are characterized by a much higher than average percentage of candidates who were residing in the United d States or Canada when they took TOEFL, while three of the four with greatest Reading-over-Listening superiority (India, Ghana, and Nigeria) had below average percentages of such candidates (see Section 2, Table 2.1).

Clearly, differences in periformance on TOEFL among contingents from different countries may be due to eseveral variables, including differences in "linguistic distance" between English and various languages and corresponding differences in inherent difficulty in learning the English language for members of different mon-English language groups.*



^{*}Of course, it is important to keer p in mind that differences in difficulty of learning the English language for various language groups cannot be inferred from observed difference: s in TOEFL scores.

Dominant Language Data for All Mive Couratry Groups

Table 6.2 presents data, whereab le to those provided in Table 6.1 for the leading 25 countries dorigin, on dominant languages for native country contingents with 15 dhore descreeking candidates. Within each dominant language group, with respect to the DLI (i.gh percent t reporting the most prevalent language).

- o Spanish was the dominal language for cancidate contingents from 21 countries, 20 from the Amerticas and one (Spain) from Europe; Arabic was dominant golf coast tingents, Arabic and French were dominant for 12. Arabidominant contingents typically were more homogeneous linguistically than the French-dominant contingents. Only two French-dominal contingents were very high in linguistic homogeneity (DLI values of 927 and 96 for Haiti and France, respectively) whereas in 14 of the 17 Arabic-dominant candidate groups 89 percent or more reported Arabic as the native language.
- english was the most equently treported native language of eight relatively small contingets from countries in the TOEFL American, European, African, addactic tregions (but was not the majority language in half of these. If let is recalled that the mean TOEFL total score for all degree platmners without regard to level was 505, it is pertinent whote from total means for most of these groups were well above the average. This tends to validate the self-classification but, of course, leaves unanswered questions regarding the backgrounds of tractive speakers of English who nonetheless take TOEFL.
- o Chinese was the domical language for six Asian contingents, including the very language contingents from Taiwan and Hong Kong and a large group from Singapore. It is noteworthy that 19 percent of candidates from Singapore reported English as the native language and that TOEFL Acceptants for this group were substantially higher than those for other. Chinese-dominant groups as well as for TOEFL candidates merally.
- o Portuguese was dominant in five country groups, including a large Brazilian and a considerably smaller Portuguese contingent.
- o Farsi was the dominantlanguage for one very large contingent (Iran) and one small contingent (Amaghanistan).
- o Dutch and German were most prevalent languages for three contingents each.
- o Each of three additional languages-Greek, Japanese, and Samoan-was dominant for a relatively large contingent from one country and a small contingent im a second.



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TT ETSLE DE LIFEL TY NATIFE EANDLAIE HILLIO HAS MOST FREDIENTET HEPDIELE AV TOLES CANDIDATE CONTINDENT.

ENE PROJUNTE DE TRATILIANE AVE AND THE LANGUAGE ÉÉCONO HITE ENGLISHET REPRETED, AND AUMBEE AND TOLES.

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544049	90	U == 14 " = 44 # #	è	0.19	-	AH SAMDA	##(1+1C	t	663	5	0	Ê	329	11.4	49925



TABLE 6.2, TOLEL SCORE DATA: ALL DESRÉE SEERERS WITHOUT REGARD TO LANGUAGER #255 78 48 47 \$ \$6 92 9657 \$ 1855 75 249 4 900 4 900 485 85 249 244 71 900 4 249 244 71 900 4 , gr,4†4 r 285109 | 1864 | 50.8 | 50.0 | 50.0 | 50.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | n # \$0 n \$0 n \$5 n 50 | 0.01 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | 0.05 | MITTAL MATERIAL STATE OF THE ST THATLAND
TINGLAND
TIN 47 130,8% CIRCH SHAMILI TASA, 36 AMMARIS 7 ADA, DG 75
ANNAHES 64
51NMALES 64
EME 61
ALLALANT 76
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LOUIS 76
LO ************** AFRICA AFRICA AFRICA AFRICA AFRICA AFRICA AFRICA AFRICA

^{*}AM ESTEMATE OF THE PROMABILITY THAT TWO RAMDOMLY SELECTED CANDIDATES FROM A COUNTRY WILL NOT REPORT THE CAME MATINE LANGUAGE EARTER HUDSOM AN ITANION, 197254

^{**}JNENNON IN THIS COLUMN INDICATES THAT AN UNLISTED LANGUAGE, OR MONRESPONSE TO THE LANGUAGE OVESTION.
- IDLECTIVELY ACCOUNTED FOR A HIGHER PERCENTAGE OF CANDIDATES THAN ANY BUT THE HOST FREQUENTLY REPORTED.

^{**}FOR THIS GROUP, THO RESPONSET OR TLANDUADE NOT LISTEOT COLLECTIVELY ACCOUNTED FOR A HIGHER PÉRCÉNTAGE OF CANDIDATES THAN ANY LISTEO LANDUADE CODE,

SAN ESTIMATE IS PROVIDED FOR THE INDER OF LINGUISTIC PRACTIONALIZATION AND NO SECOND LANGUAGE IS LISTED ONE TO HISCODING.

overall, the 12 languages that were ominant for candidates from two or more native countries accounted for 82 of the 139 native country groups in Table 0.2. Each of the remaining 57 country groups was characterized by a different dominant language.

Table 6.3 is similar to Table 6.2. However, in Table 6.3, data for native constries with 15 or more candidates are arrayed alphabetically by the most frequently reported native language—i.e., the dominant language for a country's candidate contingent. Where one language is dominant for two or more countries, the countries are presented in descending order with respect to degree of linguistic homogeneity.



TARLE 6.3

DATA ON MATTRE EAMSLASAS AND TOERS SEDRES WITHOUT RESARD TO MILITE EAMSLASE MATTRANS OF EMPOSITATES.

BY CONTRY CINTRE ALPMANTICATER ALCORDING TO THE MOST PREDICABLY REPORTED MATTRE LANGUAGE FOR

EACH REPORTED MATTRE COUNTRY CONTRY. ENTERNATIONAL AND SPECIAL TESTING PROCRAMS, 1977 - 1979

1977-75 6 1978-79

स् <u>त्रीति हिंद्रकार्यक्री</u> इच्छाद्यकर्तृति	·* t	ছুৰ্হতান্ত আগুছুৰ ক্ষিত্ৰভাত্ৰতা হুৰ্ভাত্ৰতাৰ	t	IMOF# OF FRACTIONAL- FRACTIONAL- IMOF# OF	C CRIMT RT	FF\$}{24		F -		w i		w#≅9 Tr	t tan witte
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							a		*	50	M 55	# 5º	n 55
AXAN	4.5	Ģ.▲	1.4	0.72	SHANA	A1=1C4	(219				586	576	55153
▲ 推 4 美岩 [💆	* 3	TIGHINYA	2.5	5.4.7	ETHICFIA	AFRICA			33.		515	30 8	515 <i>IZ</i>
A9 4 5 1 C	9.7	5 4 4 4 5 € M	2	3.04	58301_AP	MID EAST	£ 363		58,		92 <u></u> 5	91 Z	73566
≜ ₹##31⊊	9.5	はちまなのまれ	•	3-13	€ Uw A Ţ Ť	MID EAST	1 112		57.		228	52 7	22105
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APA315 A9A316	93	ARRENIAN	3	3.13 3.13	SYRIA	HID EAST			52.		97B	20	95172
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APARIC	92	AMMARIĆ Japane se	2	0.15	□ A Ť A T B A H E A TN	MID EAST			<u> </u>		517	10, 4	13360
APARIS	12	UM (MCHM	,	0.14	DHAN	MID EAST			52.		369	353	172 - 19
ARABIC	91	AMMARIC	·	0.17	ECYPT	AFFICA			51_		559	330	100 05
ABABIC	8.0	J7870±4	•	9.29	1840	MID FAST	1 157				379	97	47575 45073
494916	70	FRENCH	21	0.46	TUMISTA	AFFICA			37.		444	518	97105
A# 4016	5.7	FEFNCH	21	0.60	ALGERIA	AFRICA			51.		507	505	50265
474510	10	E B E AG H	11	7.63		AFFICA	1 19		35.		338	396	53369
BENGALI	91	UNKNOHN	7	3.17		ASIA	1 103		50.		518	538	51272
340 4858	5.4	CHIMESE	ý	0.25		A17A			5ž.		37	30. 9	502 75
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CHINESE	99	U454384	i	0.03		4514	1 2139				507	521	51560
CHIMESE	6.4	MALAT	ė	5.28		ASIA	1 48		50.		517	517	507
CHIMESE	7.3	F=0.15w	14	3. = 3		ASIA	1 1639		51.		353	577	56068
CHIMESE	71	MALAY	i e	2, *6		ASTA			50.		317	527	531 57
CHIME SE	18	UNKHEWN	23	0.77		ASIA			32.		50.10	328	529 31
CIFCH	7.7	SLOVER	ŧ Ŧ	0, 11		FIRMER	1 1		57.		556	577	56800
H 21 FAC	9.6	CHINESE	1	3.37	DENGARE	EU#O₽€	1 194		61_		39	33	55550
DUTCH.	4.6	UNKATUM	1	9.07	WETHERLS	f jatiet	1 846	6.3	۵Z.	. 3	556	595	596 41
ÐU† C⊲	94	J N 4 9 D W 4		0.11	5U# 14A#	AMERICA	(7	01	5Ī.	- 6	536	53. 4	59259
3 ∪1€4	7 9	UNKNOWN	16	0.35	METH ANT	A T F P I C A	1 701	93	61_	. 5	35 1	550	502 52
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58 (1) (). TOEFL VARILBLES FOR NATIVE COUNTRY COUTINGFORS AND SOCIAL INDICATOR VARIABLES FOR NATIVE COUNTRIES: PATTERNS OF VARIATION AND COVARIATION

TOEFL candidates classified by designated native country (or country of origin), as indicated in preceding sections, differ markedly with respect to a number of academic, demographic, and testing-related variables, as well as in performance on TOEFL. Examination and analysis of trends across country groups with respect to these variables has been focused primarily on data for the 25 leading countries of origin; and in most instances findings for various native country contingents (e.g., with respect to sex composition or performance on TOEFL, have been compared with rindings for all degree-planning candidates (i.e., all individuals without regard to country).

This section focuses primarily on the native country as the unit of analysis and presents (a) measures of central tendency and variability of summary statistics on TOEFL candidate variables for 129 native country contingents; (b) correlational results based on summary data for these contingents that point up patterns of covariation between mean TOEFL scores and the other TOEFL candidate variables across countries; and (c) correlational results that show patterns of covariation between the relative standing of countries of the world on selected social and economic indicator variables and the relative standing of TOEFL candidate contingents from these countries on the TOEFL variables under consideration.

TOEFL Candidate Variables

For each native country contingent of TOEFL candidates during the period from September 1977 through August 1979, summary statistics on TOEFL variables outlined below were available for analysis.*

- o Percentage of all test takers indicating that they planned to study toward an undergraduate or graduate degree in a college or university in the United States or Canada
- o Percent male
- o Percent tested in the U.S.A. or Canada (domestic center) vs. percent tested elsewhere (foreign center)
- o Percent designating institutional recipients for their score reports



^{*}Except for the first-listed variable, the base for all summary statistics was the degree-planning population, not all examinees.

1.3 higher education institutions only

1.5. higher education institutions and non-U.S. higher education institutions, or agencies/embassies concerned with international students regardless of location both institutional patterns above

- Fercent not designating any institutional recipients (score reports transmitted only to the candidates)
- Percent who were repeating candidates (i.e., who reported having taken TOEFL previously one or more times)
- ω . Mean age at time of most recent testing
- o Homogeneity/heterogeneity with respect to native language

Dominant Language Index (the language reported by the greatest number of candidates, in percent)

Index of Linguistic Fractionalization (an estimate of the probability that two candidates from the same native country will not report the same native language, highly inversely related to the DLI)

o Mean scores on TOEFL: Listening Comprehension, Structure and Written Expression, Reading Comprehension, and total

Table 7.1 shows the mean and the median of distributions data for 129 country groups (e.g., mean percent male, mean percent planning post-secondary study as a percentage of all examinees), the standard deviation of the distributions, and observed minimum and maximum values. Similar summary data for mean TOEFL scores are provided in Table 7.2.

In both tables, summary data are shown for all degree planners, and ter undergraduate and graduate planners. For comparative purposes, a summary statistic based on data for all degree planners without regard to country (the "all individuals" column) is provided. Thus, for example, it may be determined from Table 7.1 that some 83 percent of all TOEFL test takers indicated plans for postsecondary study in the United States or Canada rather than some other reason for taking TOEFL. The mean for 129 countries was 82.5, the median 85.8, and the standard deviation of the percent statistic 12.9; the minimum percent of degree planners for a country was 27, and the maximum was 98.

For most variables, the "all individuals" values and the mean values of the respective country statistics are quite similar. However, it is evident that there are relatively large discrepancies in these two values for certain TOEFL variables, namely, percent designating U.S. higher education institutions only, percent designating no institutions or agencies to receive score reports, and percent taking TOEFL previously.



TABLE 7,1

SPLEATED CHARACTERISTICS OF CANDIDATED WHO SPHOLED PLANC TO ENTER AN OBJECTATION OF DAY. ATTEMPT AS THE REASON FOR TAXING TOFFE, AND AND INTENTION TO SEEK A DESIGNED, PRODUCTIVELY,
AND DATA DESCRIPTIVE OF THE DISTRIBUTIONS OF THOSE CHARACTERISTICS FOR 124 NATIVE COUNTRY
GROUPS: INTERNATIONAL AND SPECIAL TESTING PROMEANS ONLY, 1977-78 and 1978-79

Characteristic	All individuals		sures of central tendency and variable for active-country groups (N = 129)						
	ī	Sean	Median I	5.P. 3	Min 2	Max 2			
Plan undergraduate or					·				
graduate degree (% of	83	82.5	85.8	12.9	27	98			
all test-takers)*	63	52.3	53.8	12.9	<i>41</i>	93			
Universaduate degree plans (% 77) 🍍	42	45.8	43.3	19.9	9	58			
Grainte destee plans (% TT)	41	36.0	32.5	16.8	9	85			
Male (I of degree-planners)	72	70.8	49.4	13.8	26	95			
In brightduste		67.6	70.1	15.1	22	99			
Graduate		72.8	74.4	14.8	20	100			
Trated in nondomestic center	71	69.4	74.1	21.8	11	100			
Unicreraduate planners		a.fa	67.6	22.4	14	100			
Graduate planners		73.9	60.0	21.9	6	100			
Designated both U.S. and Bor-U.S.									
exempy or institution to receive accre reports	5	5.4	3.7	6.3	0	61			
·		4.6	3.7	7.5	۵	70			
Undergraduate planners Graduate planners		5.7	3.9	5.5	O O	33			
Twelgnated an embassy, aloney,									
or foreign DI only	7	5.4	4.1	6.5	C	47			
Undergrafiate planmers		7.3	4.5	5.1	C	5.5			
Graduate planners		5.5	3.8	5.4	0	32			
Designated a U.S. higher institution	38	: 8 -	5		,	87			
on i y	16	49.5	51.7	16.4	4				
Undergraduate planners Graduate planners		50.1 48.2	51.5 49.2	17.0 17.5	5 4	100 89			
Dewignated no agency or institution									
to receive reports	50	38.7	35.₺	14.9	9	80			
Undergraduate planners		37.6	34.4	15.7	0	77			
Graduate planners		40.6	39.3	16.4	6	85			
Took TOEFL previously (self report)	32	19.2	14.6	14.7	0	65			
Undergraduate planners Graduate planners		18.4 19.4	13.5 16.0	14.4 14.1	0	65 66			
Most frequently reported native									
language as percent of all reported	H.A.	76.9	88.5	23.2	17	100			
Undergraduate planners Graduate planners		77.4 76.6	58.2 87.0	22.4 23.4	20 20	100 100			
Nean age in years!	23.8	23.9	74.0	2,1	20	28			
Undergraduate planners	21.4	21.7	21.7	1.6	18	26			
Graduate planners	26.3	26.8	27.0	2.0	21	32			

The base for this percentage is the total number of test-takers. The base for other percentages in the table is the number of degree-planners.



ffor undergraduate planners only individuals in the 15-45 year age range were included; for graduate planners the mean is based on data for individuals in the 20-50 year age range.

TABLE 7.2

MEASURES OF CENTRAL TENDENCY AND VARIABILITY OF TOEFL SCORE MEANS FOR 129 NATIVE COUNTRY GROUPS, 1977-79: POSTSECONDARY DEGREE-PLANNING CANDIDATES, BY LEVEL

Total	ΑI	l plan	ners		dergra		Graduate planners			
# / L./ E	Yelah		Min-Max	Mean	Sr	Min=Max.	Mean	Sħ.	Min-Mas.	
Country dare										
. Elektrista o Mong tishingsi c	£ 57."	4.1	43=03	54.1	4.0	44-63	53.4	4.2	43-63	
	50.7		35 - 6.1	50.3	4,5	40-57	51.1	5.2	39-62	
Realing Comprehension	51.5	4.9	41-60	50.8	4.7	39-58	51.7	5.2	39-62	
Total	\$20,4	45.8	431-595	517.0	41.8	416-591	523.6	46.0	397-616	
1:11:11:21 lat.**										
Listening Comprehensio	n 52	8	25-70	52	8		52	8		
Written Expression	50	8	20-68	49	e		50	8		
Reading Comprehension	50	9	20-67	49	9		52	8		
Total	505	73	240-677	499	73		541	72		

^{*}For all summary statistics, involving native country data, N = 129.



Heans and standard deviations are for the 1977-79 TOEFL population of degree-planning candidates. However, the min-max values are taken from data reported in the TOEFL Manual (1981) for all TOEFL takers during 1978-80, without regard to reason for taking TOEFL. For individual data, for all planners, N = 235,738; for undergraduate planners, N = 119,592; for graduate planners, N = 116,146.

- Note, for example, that fully 50 percent of all degree planners aid not designate institutional score report recipients but the mean percentage for 129 countries was only 38.7; on the other hand, whereas 38 percent of all candidates designated U.S. higher education institutions only, the mean percentage for the 129 country groups was almost 50.*
- of the behaviors under consideration in large candidate populations from a relatively small number of countries, primarily countries from the TOEFL Asian and Mideastern regions (see Section 2, Tables 2.1 and 2.2, for detail).

A similar pattern of discrepancy between mean values based on data for all individuals and the mean for candidate populations by native country may be seen in Table 7.2.

- o The higher mean values for country means than for individual score data reflect a relatively high concentration of lower-scoring individuals in a relatively small number of native country groups with very large candidate populations.
- It is noteworthy that the variability among TOEFL means of the native country groups is quite substantial as compared to that among individuals. For example, the total score standard deviation for the country means (42.8) is almost 60 percent as large as that for all individuals (73).

Correlational Data for TOEFL Variables

The correlational data in Table 7.3 indicate the degree and direction of covariation between summary statistics (i.e., percentages or means) for 129 native country groups on selected demographic or testing-related variables, and the TOEFL total score means for the groups. Separate analyses were made based on country statistics for undergraduate and graduate degree planners, respectively. These correlational findings are consistent with those presented in previous sections, based on data for all candidates without regard to country.

o Country contingents characterized by high percentages of repeating candidates (relative to the average for all native country groups) tended to have relatively low TOEFL scores, as did groups with



^{*}In the distribution of 129 country means, all mean values have equal weight regardless of the size of the country contingent. In calculating means for individual examinees, the size of the country contingent clearly influences the mean.

TABLE 7.3

COVARIATION OVER COUNTRIES OF CHARACTERISTICES OF CONTINGENTS OF DEGREE PLANNING CANDIDATES WITH TOEFL SCORE MEANS OF THE CANDIDATES, BY LEVEL OF PLANNED DEGREE: 1977-78 and 1978-79

Candidate characteristic	Plans	Correlati Total o	on with m f candida	
(country summary statistic)	group	U.G. plans	Grad.	All degree plans
Squire repert to U.S. institut	isa (a.a.)	ΑQ	38	40
(in percent)	(grad)	48	59	54
• • • • • • • • • • • • • • • • • • • •	(total)	49	51	52
No dealgnated institution	(u.g.)	-35	-29	-36
(in percent)	(grad)	-58	-66	-6.3
· · · · · · · · · · · · · · · · · · ·	(total)	-54	-51	-53
Took TOEFL before	(u.g.)	-60	-60	-62
(in percent)	(grad)	-58	-59	~59
	(total)	-63	-63	-64
Fumales as percent of	(u.g.)	50	33	45
degree-seekers	(grad)	27	07	20
-	(total)	46	27	40
Foreign test center	(u.g.)	21	30	26
(in percent)	(grad)	19	27	23
•	(total)	21	30	26
Mean age	(u.g.)	-08	12	01
w -	(grad)	13	21	15
	(total)	05	18	11
Dominant language	(u,g.)	-13	-26	-18
(in percent)	(grad)	∹ 06	-18	-11
	(total)	_. - 09	-20	-13
	(u.g.)	(10)*	(06)	(04)
	(grad)	(16)	(01)	(10)
	(total)	(15)	(01)	(09)

Note: Correlation coefficients, without decimals, are based on summary statistics for 129 countries. For example, the percent of undergraduate-degree planners who designated a U.S. institution to receive a TOEFL score report correlated to the extent of .40 with the mean TOEFL Total scores of undergraduate-degree planners, .38 with the means of graduate-degree planners, and .40 with the country-means of all degree-planners combined.

*Coefficients in parentheses are for the TOEFL Listening subtest means and the dominant language percent.



Tigh percentages of candidates (especially graduate planters) who did not designate institutional recipients for their TOEFL score reports. Data not shown in the table indicate a very substantial positive correlation (r \pm .72) between percent repeating and percent not submitting institutional score reports across country groups.

- o Country contingents with high percentages of females tended to have higher TOEFL means, especially so when data for undergraduate-planners are considered.
- o Country contingents with higher than average percentages of candidates tested in roreign centers (outside the United States or Canada) also tended to have higher mean TOEFL scores, but the relationship was not as strong as that for the other demographic and testing-related variables.
- Except for a very small negative coefficient between mean age and mean TOEFL score for undergraduate planners, these two variables tended to be positively, albeit only slightly, related across countries.
- o Degree of linguistic homogeneity as reflected in the dominant language percent was slightly negatively related to mean TOEFL total scores across the 129 native country groups. Analyses not shown in the table indicate that this pattern held for Reading Comprehension and Written Expression, but not for Listening, for which all coefficients were positive (though smaller in absolute value).

Relating Candidate Characteristics and Country Characteristics

To this point, all analyses reported have focused exclusively on data descriptive of TOEFL candidates who designated particular native countries. Data descriptive of the native countries themselves have not been taken into account. The contingents of TOEFL candidates from the various countries clearly differ markedly in average performance on TOEFL, sex composition, location of test center, percent of repeating, score reporting vs. nonreporting, mean age, and degree of linguistic homogeneity/heterogeneity. The findings just presented indicate that differences among the candidate groups in average performance on TOEFL are systematically related to differences in score reporting patterns, incidence of repeaters, location of test center, and sex (but not mean age or degree of linguistic homogeneity).

The correlation coefficients reported in Table 7.4 reflect the relationship of data descriptive of the selected characteristics of the contingents of TOEFL candidates to indices of the relative standing of their respective countries of origin on a "developed" vs. "developing"



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TOFFE LISTENING (all planners)	63	e, ^{\$} 1	7.	: 1	- 3 -	No. of	€7		- 1 1	ж,
TOPFL WESTERS (all placement)	33	19	3.5	31	14	3.7	2.7	= 3	- (:	9.7
TOUTL READING (all planners)	A.)	2.7	a.S	₹.	5:	AG	κ	9	= ',' =	2.7

Banks of some 135 countries on these indicators are provided by Taylor and Budaon (1971) were converted to a standard scale with a mean of 57 and a standard constitution of 10 in which a sountry at the 50th percentile is given a socie of 50, one at the 54th percentile a score of 60, one at the 16th percentile a score of 40, etc. Thus all raise are published scaled and sinus of correlation conflictents may be interpreted accordingly. For example, the conflictent of -57 for "degree planners" was "scaled enrollment rate" indicates that committee with higher percentages of TOPFT condidates taking TOPFT, to facilitate plans for a higher degree (rather than for professions. The constitution of the transported to have lower authority enrollment rates at 1,15,5,7,1,45,5,7,1,47,5,7,1, from 88 - 98, depending upon the variable.



finites of Ethnic and Dinguist! Frantionalization indicating probability that two inhabitants of a country if ried, mir selected will not be members of the same ethno-linguistic group.

Miwagree planners as a percent of test releast case for other percentages is the moster of local options of

^{**}Jodes indiviting probability that two ranicely selected TERRI candidates from a given country wils not depart the same notice language.

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to the local handher a president a carriety of indices on one of a condition) large number of carriebles for tecognized countries. The conditional expenditures in april 1 tere, here operated in terms per per per conditional expenditures in april 1 tere, here operated in the bands and Linguistic entriction departs. The index of Ethnic and Linguistic entriction of the country's population, which is explicated to the linear of Linguistic Fractionalization computed to the contributes of the contributes. Its included for comparative entricts.

the body of the second content of the second second of the second of the second second of the second
. If the contributation with the candidors data, converted ranks on indicator variables were available for between 88 and 90. depending on the indicator variable.

the correlational manifold among the status indicators is positive, with coefficients in the .7 range. The Index of Ethnic and Linguistic Fractionalization is inversely related to the status variables (in the -.35 to -.45 range).* A comprehensive listing of countries, with converted ranks on the indicator variables and data in the intercorrelations of the indicator variables, is provided in Appendix A.

The correlational data in Table 7.4 point up the relationship or the status indicatur variables, and the IELE, to selected descriptors of TOEE candidate contingents across countries. Several observations about these relationships are in order:



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^{*}This means simply that otheric and linguistically tractionated countries tend to have lower scores on the status indicators than do countries that are more homogeneous linguistically and ethnically.

The second of the control of the control of the control of the control of the percentage of restrictions as a percentage of all Tofficent control of the consistently negative. This means that among the control of the

the states initiators are the . Very correlated and that IELF is an affect it is a finite at the second of the second of the test of the second of the secon

The related with status indicator and IELF scores.

modest in magnitude, are consistently negative; coefficients are somewhat higher for undergraduate than for graduate data. These data indicate that contingents from developed countries tend to be somewhat younger on the average than those from developing countries.

if the correlation of the two indices of homogeneity/heterogeneity of look contingents with respect to reported native language with the latt for populations are of interest. The Index of Linguistic Fractionalization for a country's candidate contingent, modeled after the IELF reported by Taylor and Budson (1972), correlates .04 with the IELF, which in turn correlates -.61 with the percentage of a country's TOEFL candidate contingent reporting the dominant language (reflecting the strong inverse relationship between the two TOEFL candidate indices). This indicates literally that across countries, the degree of linguistic diversity in a country's candidate contingent corresponds moderately closely of the degree of linguistic and ethnic diversity in a country general population.

The mean section and total scores of candidate contingents from developed countries tended to be higher than those for contingents from developing countries.



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There is were evidence in Table 7.5 or relatively high stability is elserved differences and no candidate contingents in TOWN total regres over the short term. For example, the last column of Table 7.5 shows that the correlation of lower total means, 1977-79, in lated 35 title 100-11 total means for 1970-77.

to present a substitution and they remain to be identified and evaluated. In any such evaluation, it would be important to include materials as the timing or initiation, amount, duration, the signal of all they remain to be identified and evaluated. In any such evaluation, it would be important to include materials on such cariables as the timing or initiation, amount, duration, the signal of city, and receive of English Language preparation for "Obble andicate, from the various countries, as well as on the extent to which "exposure" to instruction in English is institutionalized in the city of the systems of the different countries.

in any event, it seems evident that periodic replication of analyses of looks condicate characteristics and TOREL performance are needed founder to keep abreast of possible changes over time with respect to the characteristics not only of the candidate contingents from various countries but also of the countries themselves.



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